# Table of Contents


# Triton College Catalog 2018-2019

**Volume LIII**

**A public community college**
**Illinois Community College District 504**

**Triton College**
**2000 Fifth Avenue**
**River Grove, Illinois 60171**
**General (708) 456–0300**
**website: www.triton.edu • email: admissions@triton.edu**

### Vision Statement
Triton College is a model of teaching excellence and student success. We are a community college that embraces the educational, training and personal development needs of the diverse communities we serve through innovation in our programs and approach to learning.

### Mission Statement
Triton College is committed to student success through institutional and academic excellence, and providing a student-centered, lifelong learning environment for our diverse community.

### Core Values
The Core Values of Triton College are Integrity, Communication, Excellence, Teamwork and Service.

### Board of Trustees
Mark R. Stephens, Chairman; Donna L. Peluso, Vice Chairwoman; Diane Viverito, Secretary; Luke Casson; Glover Johnson; Elizabeth Ann Potter; Jay Reyes; and Erendira Garcia, Student Trustee

### President
Mary-Rita Moore

# General Information

## Message from the President

Welcome to Triton College and our community, dedicated to excellence in education and student success! You will find high quality programs of study that serve a wide range of career interests and prepare students for continuing their education well beyond our institution.

Our community college district consists of 25 diverse, surrounding communities with varying needs for higher education. It has been a priority for the college to offer affordable, quality education addressing various needs and interests within proximity to home. We seek to provide academic and career programs as well as topic-specific courses from which students and the communities we serve may choose. The mission of the college has consistently focused on fostering a student-centered, lifelong learning environment and a meaningful college experience that helps you to achieve your goals.

Triton offers a comprehensive selection of programs, credit and non-credit, and services to support completion of a degree or certificate as well as transfer to a 4-year college or university. We provide 108 degree and certificate programs for transfer and career-specific areas; online education with engaging and effective approaches to instruction; a wide range of support services including tutoring, mentoring, and career services; and a campus environment covering 101 acres and 18 facilities, with newly renovated and creatively designed spaces for engagement in learning.

College faculty and staff utilize innovative technology, both inside and outside the classroom, to provide the education you seek and to facilitate active learning. Our co-curricular programming (student clubs & organizations, athletics, & more) in addition to many campus initiatives are readily available to support the interests of students and complement your academic study.

At Triton, you will discover countless opportunities for personal growth and achieving your educational goals. The pursuit of these opportunities will contribute to your success as a student and our shared success as a college community.

Mary-Rita Moore
President, Triton College
president@triton.edu

# Board of Trustees

Mark R. Stephens
Chairman

Donna L. Peluso
Vice Chairwoman

Diane Viverito
Secretary

Luke Casson

Glover Johnson

Elizabeth Potter

Jay Reyes

Erendira Garcia
Student Trustee

## Catalog Disclaimer

This catalog contains information regarding Triton College, which is current at the time of publication. It is not intended to be a complete description of all Triton College's policies and procedures, nor is it intended to be a contract. This catalog and its provisions are subject to change at any time, and may be revised by Triton College in the future without advance notice.

**THIS CATALOG IS NOT A CONTRACT.**

## State of Illinois General Education Core Curriculum Requirements

### Effective for Incoming Freshmen as of Summer 1998

Triton College is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that allows transfer of the completed General Education Core Curriculum between participating institutions. Completion of the General Education Core Curriculum at any participating college or university in Illinois assures transferring students that lower-division general education requirements for an associate's or bachelor's degree have been satisfied. This agreement is in effect for students entering an associate or baccalaureate degree-granting institution as a first-time freshman in summer 1998 (and thereafter).

Contact a counselor for additional information and read about the IAI on the World Wide Web at http://www.iTransfer.org.

## Accreditation

Triton College is accredited by the Higher Learning Commission (hlcommission.org), a regional accreditation agency recognized by the U.S. Department of Education.

The Higher Learning Commission may be reached at:

The Higher Learning Commission
230 South LaSalle Street, Suite 7-500
Chicago, IL 60604
Telephone: (800) 621-7440/(312) 263-0456
email: inquiry@hlcommission.org
website: http://www.hlcommission.org

## Fice Code

Triton College's assigned six digit Fice Code number is 001773 as described in the Higher Education Publication.

## Approvals

- Illinois Board of Higher Education
- Illinois Community College Board
- Authorized under federal law to enroll non-immigrant alien students.

## Memberships

- American Association of Community Colleges
- Association of Community College Trustees
- Association of Governing Boards
- Illinois Community College Trustees Association
- National Junior College Athletic Association

The information contained in this catalog is not to be construed as part of the enrollment contract.

## Affirmative Action and Title IX

Triton College reaffirms its commitment to affirmative action and equal employment for all qualified persons without regard to race, color, religion, sex, national origin, sexual orientation, disability, veteran status, age, or any other basis which is protected by law except where such characteristics are bonafide occupational requirements.

Inquiries regarding compliance with state and federal non-discrimination regulations may be directed to:

**Students and Employees**
Joe Klinger
AVP, Human Resources
Triton College
2000 Fifth Avenue
River Grove, IL 60171
708-456-0300, Ext. 3743
joeklinger@triton.edu

**Section 504**
Deborah Kaczmarek
Director, Center for Access and Accommodative Services
Triton College
2000 Fifth Avenue
River Grove, IL 60171
708-456-0300, Ext. 3854
deborahford@triton.edu

or to any of the following agencies:

1. Equal Employment Opportunity Commission
   1400 L Street NW
   Washington, DC 20005
   *–or the–*
   Chicago District Office
   500 West Madison, Suite 2800
   Chicago, IL 60661
   (312) 353-2713
   (312) 353-2421 (TTY)
2. Illinois Department of Human Rights
   100 West Randolph, Suite 10-100
   Chicago, IL 60601
   (312) 814-6200
   *(312) 263-1579 (TDD)*
3. Office for Civil Rights
   U.S. Department of Education
   111 N. Canal Street, Suite 1053
   Chicago, IL 60606
   (312) 886-8434
   *(312) 353-2540 (TDD)*
4. Illinois Education Labor Relations Board
   160 North LaSalle Street, Suite N-400
   Chicago, IL 60601
   (312) 793-3170
   *(800) 526-0844 (TDD)*

## Acción Afirmativa y Título IX

Triton College reafirma su cometido de Acción Afirmativa e igualdad de empleo para todas aquellas personas calificadas sin importar raza, color, religión, sexo, nacionalidad, preferencia sexual, desabilidad, edad o cualesquier otras bases, las cuales son protegidas por la ley, excepto donde tales caracteristicas son necesarias como requisito de empleo.

Usted puede obtener información relacionada conforme a los reglamentos estatales y federales contra la discriminación en las direcciones mencionadas en el párrafo anterior.

## Akcja Afirmacyjna i Title IX

Triton College potwierdza swoje zaangażowanie i aktywna działalność na rzecz równego zatrudnienia dla wszystkich wykwalifikowanych osób bez względu na rasę, kolor skóry, religię, płeć, narodowość, orientację seksualną, niepełnosprawność, status weterana, wiek, lub jakąkolwiek inną ceche, która jest chroniona przez prawo z wyjątkiem przypadków kiedy takie atrybuty są wymagane w celu wykonywania obowiązków zawodowych.

Pytania dotyczące przestrzegania przepisów stanowych i federalnych od spraw dyskryminacji można kierować do osób lub agencji wymienionych w *Affirmative Action and Title IX*.

# Policy on Compliance with Illinois Freedom of Information Act

The Board of Trustees of Triton College acknowledges that the inspection and dissemination of public records must reflect an appropriate balance between the needs of the board for administrative effectiveness and confidentiality, the protection of the privacy of individuals and the legitimate interests of the public in receiving public information.

The Board of Trustees of Triton College hereby states its intention to comply with the provisions of the Illinois Freedom of Information Act. Information concerning Triton College, and the records of such entity, will be displayed, and lists of records will be maintained, as required by the act. Public records of the entity will be available for inspection and copying. Compliance with the act will be effected in accordance with this policy and regulations issued to implement this policy.

Inquiries should be directed to Triton College FOIA officer, S. Sullivan, Vice President of Business Services, at foia@triton.edu.

# Academic Freedom

The Triton College Board of Trustees supports the concept of academic freedom for the full- and part-time teachers of the college.

Faculty members shall be free to present instructional materials which are pertinent to the subject and level taught and shall be expected to present all facets of controversial issues in an unbiased manner.

As an individual of learning and a representative of the college, he or she shall remember that the public may judge the teaching profession and the college by his or her utterances. Hence, he or she shall exercise appropriate restraint, show respect for the opinion of others, and make every effort to indicate that he or she is not an institutional spokesperson.

# College Profile

### Diversity and Quality

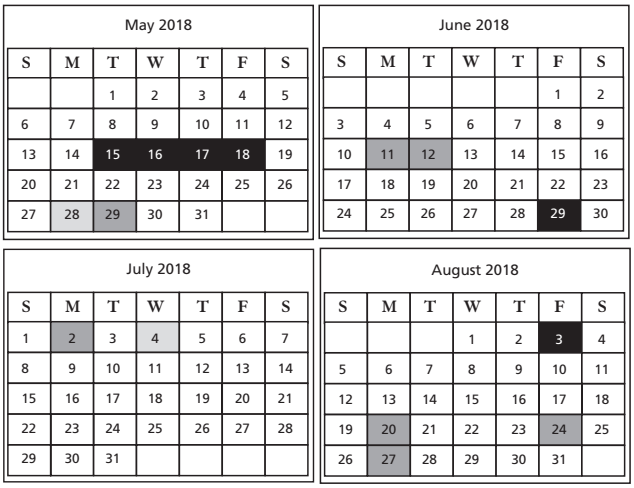
Triton College is a comprehensive community college that serves 25 towns in the near western suburbs of Chicago. The Triton College district encompasses 63 square miles and includes over 340,000 residents.

Triton College is one of 48 community colleges in the state of Illinois. It operates under the direction of the Illinois Community College Board, with accreditation from the Higher Learning Commission of North Central Association of Colleges and Schools.

Triton College was founded in 1964 and has become recognized for its attractive, 100-acre campus, for its diverse and innovative programs and for the quality of its faculty. Triton transfer students are readily accepted into colleges and universities nationwide. Career program students learn skills that enable them to successfully compete in the job market and to make significant contributions to business and industry. Continuing education students participate in courses geared towards recreation, personal improvement, work force development, and lifelong learning.

Triton's affordable tuition and open admission policy have greatly expanded the accessibility of post-secondary education to residents of the district. Currently, Triton College serves more than 15,000 students during the fall and spring semesters with close to 100 degree and certificate programs. New educational programs and services are constantly being developed in order to meet the needs of district residents. Triton classes are offered at the main campus in River Grove, several extension sites throughout the district, as well as on the web.

# Academic Calendar




## Summer Semester 2018

| | | |
|---|---|---|
| | Feb. 19 | Registration begins |
| | Feb. 19-April 29 | **Tuition deadline of May 1** for students registering on these dates |
| | April 30-July 31 | **Tuition deadline of two (2) days** for students registering on these dates |
| | June 6 | August 2018 Graduation petition deadline |
| | **June 12** | **Continuing Education classes begin** |

### First Five-Week Session

| | | |
|---|---|---|
| | Feb. 19–May 29 | Registration for first five-week session |
| | May 28 | Holiday, no classes |
| | **May 29** | **Credit classes begin** |
| | May 29–30 | Schedule adjustment (add/drop) |
| | June 29 | End of first five-week session |
| | July 5 | Grades due by 7:30 p.m. |

### Eight-Week Session

| | | |
|---|---|---|
| | Feb. 19–June 10 | Registration for eight-week session |
| | **June 11** | **Credit classes begin** |
| | June 11–12 | Schedule adjustment (add/drop) |
| | July 4 | Holiday, no classes |
| | Aug. 3 | End of eight-week session |
| | Aug. 8 | Grades due by 7:30 p.m. |

### Second Five-Week Session

| | | |
|---|---|---|
| | Feb. 19–July 1 | Registration for second five-week session |
| | **July 2** | **Credit classes begin** |
| | July 2-3 | Schedule adjustment (add/drop) |
| | July 4 | Holiday, no classes |
| | Aug. 3 | End of second five-week session |
| | Aug. 8 | Grades due by 7:30 p.m. |

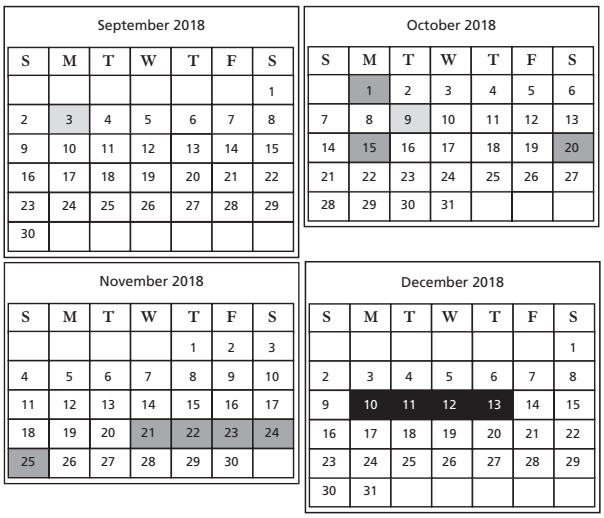
*Summer Session final exams are given the last day of class.*

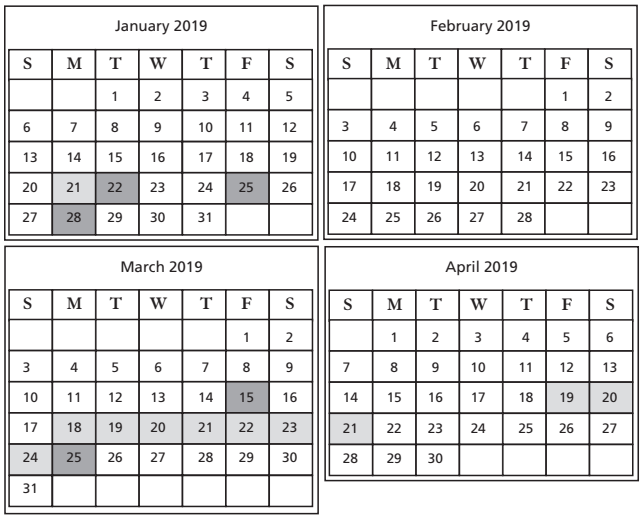
Refund and withdrawal dates are based on the percentage of completion of class calendar days: 100% refund=5.5%; 50% refund=5.6%-8%; withdrawal with grade of "W"=75%. Please consult class schedule in your "MyTriton" portal for specific dates.

## Fall Semester 2018

| | | |
|---|---|---|
| | April 23 | Advanced registration begins |
| | April 23-July 29 | **Tuition deadline of July 31** for students registering on these dates |
| | April 23 | FACTS Tuition Payment Plan available |
| | May 21-Aug. 18 | Registration/Placement Testing/New Student Orientation |
| | June 5 | August 2018 graduation petition deadline |
| | July 30-Dec. 13 | **Tuition deadline of two (2) days** for students registering on these dates |
| | Aug. 16 | Dept. chairpersons return |
| | Aug. 17 | Faculty workshop |
| | **Aug. 20** | **Credit classes begin** |
| | Aug. 20–24 | Schedule adjustment (add/drop) |
| | **Aug. 24** | **Weekend College classes begin, first six-week session** |
| | **Aug. 27** | **Continuing Education classes begin; High School Equivalency/English as a Second Language (ESL) classes begin** |
| | Sept. 3 | Holiday, no classes |
| | Sept. 17 | December 2018 graduation petition deadline |
| | Sept. 19 | Last day to make up incomplete ("I") grades |
| | Oct. 1 | **High School Equivalency/ESL Mini-term classes begin** |
| | Oct. 9 | Faculty holiday, no classes |
| | Oct. 12 | Mid-semester |
| | **Oct. 15** | **Second seven-week classes begin** |
| | **Oct. 20** | **Weekend College classes begin, second six-week session** |
| | Nov. 21–25 | Thanksgiving recess, no classes |
| | Dec. 10–13 | Final exams |
| | Dec. 19 | Grades due by 3 p.m. |

Refund and withdrawal dates are based on the percentage of completion of class calendar days: 100% refund=5.5%; 50% refund=5.6%-8%; withdrawal with grade of "W"=75%. Please consult class schedule in your "MyTriton" portal for specific dates.






## Spring Semester 2019

| | |
|---|---|
| Oct. 29 | Advanced registration begins |
| Oct. 29–Jan. 2 | **Tuition deadline of Jan. 4** for students registering on these dates |
| Oct. 29 | FACTS Tuition Payment Plan available |
| Nov. 21-Jan. 19 | Registration/Placement Testing/New Student Orientation |
| Jan. 3-May 17 | **Tuition deadline of two (2) days** for students registering on these dates |
| Jan. 17 | Dept. chairpersons return |
| Jan. 18 | Faculty Workshop |
| Jan. 21 | Holiday - closed |
| **Jan. 22** | **Credit and High School Equivalency/ESL classes begin** |
| Jan. 22-26 | Schedule adjustment week (add/drop) |
| **Jan. 25** | **Weekend College classes begin, first six-week session** |
| **Jan. 28** | **Continuing Education classes begin** |
| Feb. 11 | May 2019 graduation petition deadline |
| Feb. 20 | Last day to make up incomplete ("I") grades |
| March 15 | **Weekend College classes begin, second six-week session** |
| March 15 | Mid-semester |
| March 18-24 | Spring recess, no classes |
| **March 25** | **Second seven-week classes begin** |
| April 19-21 | Spring Holiday, no classes |
| May 14-17 | Final exams |
| May | Graduation—date and time to be determined |
| May 21 | Grades due by 3 p.m. |

Refund and withdrawal dates are based on the percentage of completion of class calendar days: 100% refund=5.5%; 50% refund=5.6%-8%; withdrawal with grade of "W"=75%. Please consult class schedule in your "MyTriton" portal for specific dates.

## Summer Semester 2019

| | |
|---|---|
| Feb. 18 | Registration begins |
| Feb. 18-April 28 | **Tuition Deadline** of May 1 for students registering on these dates |
| April 29-July 30 | **Tuition deadline of two (2) days** for all students registering on these dates |
| June 5 | August 2019 Graduation petition deadline |
| **June 11** | **Continuing Education classes begin** |

### First Five-Week Session

| | |
|---|---|
| Feb. 10–May 27 | Registration for first five-week session |
| May 27 | Holiday, no classes |
| **May 28** | **Credit classes begin** |
| May 28-29 | Schedule adjustment (add/drop) |
| June 28 | End of first five-week session |
| July 3 | Grades due by 7:30 p.m. |

### Eight-Week Session

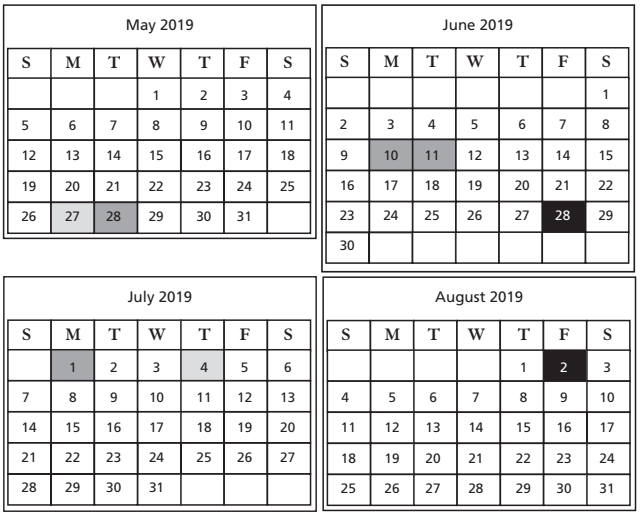
| | |
|---|---|
| Feb. 18–June 9 | Registration for eight-week session |
| **June 10** | **Credit classes begin** |
| June 10–11 | Schedule adjustment (add/drop) |
| July 4 | Holiday, no classes |
| Aug. 2 | End of eight-week session |
| Aug. 7 | Grades due by 7:30 p.m. |

### Second Five-Week Session

| | |
|---|---|
| Feb. 18–June 30 | Registration for second five-week session |
| **July 1** | **Credit classes begin** |
| July 1-2 | Schedule adjustment (add/drop) |
| July 4 | Holiday, no classes |
| Aug. 2 | End of second five-week session |
| Aug. 7 | Grades due by 7:30 p.m. |

*Summer Session final exams are given the last day of class.*

Refund and withdrawal dates are based on the percentage of completion of class calendar days: 100% refund=5.5%; 50% refund=5.6%-8%; withdrawal with grade of "W"=75%. Please consult class schedule in your "MyTriton" portal for specific dates.



# Admission and Registration

## Student Admission

Triton College recognizes that the community college must be available to all residents within its boundaries. All high school graduates and all others who can benefit from college programs will be admitted.

With the belief that every student should be successful, after admission, the college will provide counseling and advising to help each student determine an appropriate field of study according to individual abilities and interests.

Entry into certain programs may be restricted due to limitations in space, number of sections offered, or other considerations. If space is not available for all students who apply, the college will accept those best qualified, using pre-established criteria as guides, and will give preference to in-district students.

Triton College does not discriminate in the admission of students on the basis of race, color, national origin, age, gender, gender expression, sexual orientation, religion, veteran status, marital status, ancestry, or disability. Additionally, the lack of English language skills will not be a barrier to admission and participation in any educational programs. Information regarding admission to the college and to specific programs may be obtained from the Call Center at (708) 456-0300, Ext. 3130.

Triton College nie dyskryminuje w przyjęciu studentów na podstawie rasy, koloru skóry, pochodzenia, wieku, płci, ekspresji płci, orientacji seksualnej, religii, statusu weterana, stanu cywilnego, narodowości czy niepełnosprawności. Dodatkowo, brak znajomości języka angielskiego nie będzie przeszkodą do przyjęcia i udziału w jakichkolwiek programach edukacyjnych. Informacje o przyjęciu do college'u i do konkretnych programów można uzyskać w Call Center dzwoniąc pod numer (708) 456-0300, wew. 3130.

El Colegio Triton no discrimina la matriculación a estudiantes por razones de raza, color, nacionalidad, edad, género, expresión de género, orientación sexual, religión, estatus de veterano militar, estado civil, descendencia, o discapacidad. Además, la falta de destreza en el inglés no es una barrera para matricularse o tomar parte de los programas educacionales. Para más información acerca de cómo matricularse u otros programas pueden ser obtenidos en la Oficina Servicios de Admisión o llamar al (708) 456-0300, Ext. 3130.

## Call Center

The Call Center strives to meet the needs of Triton's highly diverse community of traditional and non-traditional life-long learners.

The Call Center is available to assist students, faculty, and staff with information and resources.

Some of our services include:

- Answer general college and admission questions
- Program information
- Class location/description
- Register for classes
- Faculty contact information
- Explain college tuition/fees and payment options
- Special events information

We are here to guide you and help you transition to Triton. For more information, call us at (708) 456-0300, Ext. 3130 or email us at admissions@triton.edu.

## Residence Policy

Residence is defined as the place where a student lives and which a student intends to be his true permanent home. A student who temporarily moves into the Triton district for the purpose of attending the college at a reduced tuition rate will not be considered as having established residency within the district.

The student must meet the following criteria to be considered a resident of the district:

Occupy and/or own a dwelling in the district for 30 days immediately prior to the start of classes. Provide a photo ID and at least two forms of identification such as a driver's license, automobile registration, property tax statement, voter registration card, lease or purchase agreement, utility or telephone bill, library card or other official documentation.

A change from out-of-district to in-district status during a semester becomes effective no earlier than the following semester.

## Student Right to Know

Triton College maintains a list of information, as required by federal law that is available for review by students, prospective students, and the general public, upon their request. The categories of information are shown below, and the campus location where the information is available is indicated for each.

### Graduation/Completion and Transfer-Out Rates

Information is available on the numbers of degree-seeking or certificate-seeking students who complete their programs at the college. Also, the number of students who transfer out without completing their programs is reported.

This information is available at the Research Office, Room F-209, (708) 456-0300, Ext. 3565.

### Campus Crime Statistics and Security Policies

The following information is available for review:

- crime statistics
- current campus security policies
- current policies for reporting campus crimes
- policies for issuing security warnings to students/ employees
- the status of allowing confidential reporting of crimes.

The Triton Police maintain a daily, written log of crimes that are reported.

This information is available in the student handbook, on the Triton College website, and at the Triton College Police, Room N-210, (708) 456-0300, Ext. 3203.

### Institutional Information

Descriptions of the following items are available to students and the general public:

- requirements and procedures for withdrawing from the institution
- cost of attendance (tuition/fee charges, books/supplies costs)
- refund policy and summary of requirements for return of Title IV grants or loans
- current academic programs of the institution (current degree programs, educational/training programs, faculty)
- names of associations or agencies accrediting the institution
- description of special facilities and services for disabled students
- Triton's policy on enrollment in study abroad programs

This information is available in the college catalog, on the website, and at the Records Office, Student Center, Room B-220, (708) 456-0300, Ext. 3720, and at the Financial Aid Office, Student Center, Room B-160, (708) 456-0300, Ext. 3155.

### Annual Notification Required by FERPA (Family Educational Rights and Privacy Act regulations)

A notice and explanation of Triton's policy relating to the federal Family Education Rights and Privacy Act regulations is available.

See Privacy Act and Directory Information (p. 39) of this catalog, and at the Records Office, Student Center, Room B-220, (708) 456-0300, Ext. 3720.

### Financial Assistance Available and Eligibility

Information about financial assistance and eligibility requirements is available, including:

- types of aid available
- application forms/procedures to use in applying for aid
- eligibility requirements
- selection criteria
- criteria used to determine amount of aid award,
- satisfactory student progress standards
- how to re-establish satisfactory progress status
- disbursement methods
- loan qualifications and student employment conditions
- conditions for federal loan repayment for students who participate in volunteer services

This information is available in this catalog and at the

Financial Aid Office, Student Center, Room B-160, (708) 456-0300, Ext. 3155.

### Net Price Calculator

The Net Price Calculator is intended to provide estimated net price information to current and prospective students and their families based on what similar students paid in a previous year. The federally required Net Price Calculator includes the estimated cost of attendance – including tuition and required fees, books and supplies, room and board (meals), and other related expenses, less the estimated grant and scholarship aid received by students in a previous year. Please be aware that the estimated cost of attendance includes expenses such as room and board, meals, personal, and transportation which may not apply to all students, particularly dependent students. Triton College's Net Price Calculator can be found at http://online2.triton.edu/netpricecalculator/.

### Athletic Participation and EADA (Equity in Athletics Disclosure Act) Report and Data

Information about athletic program participation and financial aid programs is available. Enrollment data about Triton athletes is provided, as well as information about Triton's Inter-collegiate Athletics programs. Triton is a member of the National Junior College Athletic Association (Region IV).

This information is available at the Athletic Office, Robert M. Collins Center, Room R-202, (708) 456-0300, Ext. 3784, and at the Financial Aid Office, Student Center, Room B-160, (708) 456-0300, Ext. 3155.

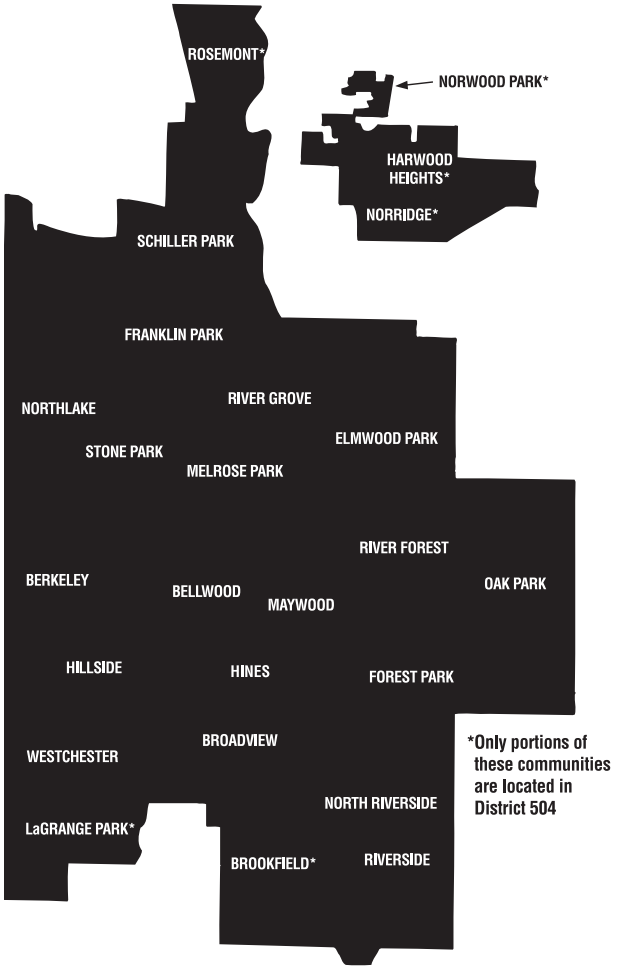
## Out-of-District Resident Employed In-District

A student who resides outside of the Triton College district, but is employed by a company/organization within the district will be entitled to in-district tuition rates if the following conditions for contract training are met:

1. The student must first apply for a chargeback from their local community college if the program of study is not offered by that district.
2. An authorized agent of the company must complete the contract training form, verifying that the student is employed at least 35 hours per week and in a job-related course and/or program of study.
3. All contract training forms submitted by the student are subject to verification by the college.
4. A separate contract training form must be submitted each semester, prior to the start of classes, to confirm eligibility.

For more information, contact the Call Center (708) 456-0300, Ext. 3130.

**Towns and villages in the Triton district are:**




## Application Procedures

This policy for making application for admission to Triton College is established to accommodate the needs and goals of both degree candidate students and non-degree candidate students.

Degree candidates are those students who intend to earn a degree or certificate at Triton College. A degree candidate must meet the following admission requirements:

1. Submit application for admission to the Office of Admissions or apply online at www.triton.edu.
2. Submit official high school transcripts or GED scores, or "Ability to Benefit" test scores.
3. Submit ACT and/or SAT scores (optional).
4. Submit official college transcripts, where applicable.
5. Take Triton College placement tests.
6. Complete new student orientation.

Non-degree candidates are all other students enrolled at Triton College. A non-degree student must meet the following admission requirements:

1. Submit application for admission to the Office of Admission or apply online at www.triton.edu.

2. Submit official high school and college transcript, where applicable.
3. Complete new student orientation.
4. Take Triton College placement tests.

### Triton College High School Transcript Procedure

To be in compliance with Title IV Federal Student Aid Program Integrity Regulations of a definition of a high school diploma, the Office of Admission and Records at Triton College will be implementing the following procedures for high school transcripts effective July 1, 2011.

- All high school transcripts must be from an accredited institution.
- International high school transcripts must be evaluated by an evaluation agency and must meet United States high school equivalency standards. All foreign High School and College Transcripts must be evaluated by a NACES member. NACES stands for the National Association of Credential Evaluation Services. They may be reached at www.naces.org.

## Special Admission Requirements

### Associate in Arts/Associate in Science Degree Programs

Illinois General Assembly Public Act 86-0954 establishes minimum high school course requirements for admission to transfer programs at Illinois public community colleges and Illinois public universities, effective fall 1993, as listed below. All students applying for admission to an associate in arts or associate in science degree program will be admitted to the college on a provisional basis until completion of 32 semester hours of AA/AS course work with grades of "C" or better in each course. Prior to the completion of 32 semester hours, an evaluation of the high school transcript may be requested to determine compliance with the requirements.

All entering students are required to complete Triton's placement tests at the time of registration. These tests are required whether or not all college preparatory course requirements have been met. Upon completion of the placement tests, students will be placed in courses appropriate to their academic needs. Eligible students may be exempted from the placement tests.

The law requires completion of at least 15 academic units in the following areas: (4) units of English, (3) units each in mathematics, sciences and social studies and (2) elective units. One unit is equivalent to one year of high school study. Electives may be taken in art, music, foreign language or vocational education. Up to three of the 15 units may be redistributed by deducting no more than one unit each from the categories of social studies, mathematics, sciences and electives, and completing them in any of the five categories of course work. For more information, contact the Records Office at (708) 456-0300, Ext. 3444.

### Nursing and Allied Health Programs

Applicants for some Health Career programs must meet additional admission requirements. For information, please see the catalog section on "Selective Admission Health Programs" (p. 167) on page 153. Applicants are strongly encouraged to attend an information session and may do so online or in person. For more information, call (708) 456-0300, Ext. 3858 for Nursing, Ext. 3545 for all other Allied Health programs, or the Call Center at Ext. 3130.

## Contract Training

The following provisions exist for Contract Training programs with individual companies:

**Option 1** — Customized training at company site or class-size programs at Triton. Contact: Dean of Continuing Education, (708) 456-0300, Ext. 3489.

**Option 2** — Companies with an insufficient number of employees to contract for customized training may purchase seats in a regular college course offering through the following procedures:

1. Authorized agent of company signs a contractual agreement with the college for a designated number of employees to be retrained.
2. The company is billed directly for tuition.

For more information, contact Continuing Education, (708) 456-0300, Ext. 3489.

## New Student Orientation

Triton's new student orientation program, Destination Success, provides an opportunity for new students to learn about degree programs, student services, college facilities, strategies for college success and much more. Students may attend orientation on campus or complete the online orientation. With the goal of facilitating a smooth transition into Triton College, Destination Success is designed to provide this information to students in small group settings.

Participation in new student orientation is mandatory for all new credit students. Students must be admitted to Triton and have placement test completed prior to attending an orientation session. Students beginning in the fall semester should attend orientations conducted in June/July; those beginning in the spring semester may attend sessions offered in November/December. Students completing the online orientation must access it through the student portal. For additional information or to register for an orientation session, call (708) 456-0300, Ext. 3130, or visit www.triton.edu/destinationsuccess.

## Full Time/Part Time

In addition to the degree and non-degree candidate classifications described above, students also may be considered either full-time or part-time. A part-time student is one taking fewer than 12 semester hours (less than six hours in summer session). A full-time student is one enrolled in 12 or more semester hours (six or more hours in summer session).

## Freshman/Sophomore

A freshman is a student who has completed less than 30 semester hours of college credit. A sophomore is one who has completed 30 or more semester hours of college credit.

## International Student Admission

All applicants are required to contact the Records Evaluator for specific admission procedures. International students applying to Triton College are required to submit proof of English proficiency through qualifying scores in the Test of English as a Foreign Language (TOEFL) exam to the Records Office.

International students must enroll in a minimum of 12 semester hours and must complete their degree objectives within six semesters. International students pay the out-of-state tuition rate. Financial assistance will not be available to international students.

International applicants must also submit official credentials and transcripts from all secondary and post-secondary educational institutions including any college or university work. All foreign High School and College Transcripts must be evaluated by a National Association of Credential Evaluation Services (NACES) member. They may be reached at www.naces.org.

The Records Evaluator will issue the required Immigration Form 20 (I-20) only after all required documents have been submitted and the student's application for admission has been accepted.

Other non-native students, whether holding diplomatic, visitor or other non-immigrant visas, must pay out-of-state tuition rates. For information, contact the Records Evaluator, Records Office at (708) 456-0300, Ext. 3733.

## High School Student Admission

High school students may be permitted to take college courses after obtaining the written approval of their high school principal or counselor. They must meet the college application and admission requirements before being permitted to register for classes.

## Registration

A schedule of classes will be mailed to all in-district homes before each term for the convenience of residents who may want to enroll at Triton College. A notice to register is issued to students who are currently enrolled.

Students may register in person for all courses and by telephone or online for many occupational and university transfer credit courses, and almost all courses offered through the School of Continuing Education. To ensure proper academic placement, all credit seeking students will be required to participate in new student orientation and placement testing (see Academic Placement (p. 38)).

Students may pay tuition and fees in cash, by check, online or by bankcard. Failure to comply with payment deadlines may result in cancellation of enrollment and the need to re-register, with no assurance that the same class schedule will be available.

Class registration will close at 11:59 p.m. on the day before the scheduled start date of each class. Registration for classes already in session will not be allowed. This change will impact all credit, non-contractual courses. For more information, go to www.triton.edu/rethink.

(Inquiries concerning registration dates and procedures should be directed to the Call Center at (708) 456-0300, Ext. 3130, or visit www.triton.edu.)

## Tuition and Fees

**Tuition**

| | Summer 2018 | Fall 2018 | |
|---|---|---|---|
| In-District | $118.00 | $123.00 | per semester hour |
| Out-of District* | $308.20 | $320.53 | per semester hour |
| Out-of State/International Visa Students | $386.52 | $401.98 | per semester hour |
| In-District Tuition for: Diagnostic Medical Sonography Nuclear Medicine Technology Nursing Radiologic Technology Surgical Technology | $195.00 | $195.00 | per semester hour |
| Out-of-District Tuition for: Diagnostic Medical Sonography Nuclear Medicine Technology Nursing Radiologic Technology Surgical Technology | $360.00 | $360.00 | per semester hour |

** Out-of-district student tuition — Students not residing within the Triton College district must pay out-of-district tuition unless*

*the student qualifies for a CAREER program as outlined in this catalog. The out-of-district rate is calculated by a formula as prescribed by the Illinois Community College Board.*

| | |
|---|---|
| **Student Services Fee (nonrefundable)** | $7 per credit hour |
| **Auxiliary Fee** | $1 per credit hour |
| **Registration Fee** | $2 per credit hour |
| **Technology Fee** | $6 per credit hour |
| **Online Course Fee** | $25 per course |

### Charged Where Applicable

| | |
|---|---|
| Graduation fees (non-refundable) | |
| Cap and Gown fee | TBA |
| Course fee | variable (lab fees, supplies, etc.) |
| Academic Transcript | |
| Electronic | $5 |
| Paper — Pickup | $5 |
| Paper — Mailed | $7 |
| Paper — Mailed (International) | $12 |
| Paper — Mailed FedEx Overnight (Domestic) | $20 |
| Paper — Mailed FedEx Overnight (International) | $50 |

All fees are subject to revision by the Triton College Board of Trustees without prior notice.

### Out of District Students/Joint Agreements/CAREER Programs

Triton College participates in the Comprehensive Agreement Regarding the Expansion of Educational Resources (CAREER), which allows students interested in completing an Associate of Applied Science or certificate program not offered at their home community college to receive in-district tuition at another participating community college. With prior written approval, out of district students may enroll in an Applied Science program at Triton College that may not be available through their local community college. Students are encouraged to contact their home community college for approval to enroll in a specified program of study. Upon receipt of this approval, Triton College will assess them at the in-district rate.

Students residing in the Triton College District (504) may be eligible to enroll in Applied Science programs at other participating community colleges, provided that the program is not offered at Triton. Students planning to enroll in a selective admissions program must also provide a copy of the approval letter for admission into the desired program. Interested students should complete a joint agreement form in the Triton College Records Office, located in Room B-220 in the Student Center. This form must be submitted at least thirty (30) days prior to the start of the semester. Authorization is limited to one program per applicant at a time.

### Athletic Tuition Waiver Policy

Student-athletes eligible under National Junior College Athletic Association (NJCAA) and Conference standards are considered qualified to receive tuition waivers. Any student who participates in intercollegiate athletics will also be eligible to apply for local, state and national scholarships available to all other Triton College students. Non-athletic scholarships awarded to student-athletes are not counted toward the total tuition waiver.

In accordance with NJCAA regulations, waivers are available to any and all sport offerings designated as Division I or Division II. Triton College will offer waivers that cover in-district tuition only, (not fees) and shall not exceed fifteen (15) credit hours per semester. These are one year renewable awards and do not include summer school expenditures.

Each year for the subsequent academic year by May 1st, the college administrator overseeing intercollegiate athletics will determine the following:

- Identify programs eligible to offer tuition waivers.
- Determine number of renewable and vacant (available) waivers.
- Make any recommendations or determinations on new or existing provisions issued by NJCAA or Conference.

Written notice of the terms of the original tuition waiver shall be given to the student-athlete no later than fourteen (14) calendar days after the beginning of classes of the academic term in which they participate. This tuition waiver agreement (with the required student signature) shall be in effect for one full academic year. If waivers become vacant, it may be awarded to a different individual for the remainder of that academic year beginning with the next term. Renewal of the tuition waiver must be given in writing as soon as eligibility is determined. Actions regarding prohibited practices or cancellation of a waiver will follow the established regulations of the NJCAA.

## Refund Schedule

A student who registers, fails to attend class and fails to officially withdraw from the class, is still responsible for all tuition and fees. A student who receives grades for a class, but does not pay, will be subjected to collection fees when the unpaid balance is turned over to a collection agency.

A student who officially withdraws from any class may be refunded a percentage of the course tuition, depending on when withdrawal is made. The registration, late registration, proficiency test and special examination fees are not refundable. The auxiliary and student service fees are refundable only when official withdrawal occurs before the start of the semester.

### Refund

A student is entitled to a 100 percent refund when official withdrawal is made no later than the first 5.5 percent of the class calendar days. A 50 percent refund will be granted within the first 5.6-8 percent of the class calendar days. Withdrawals after the 100 percent refund period will result in a grade of "W".

Students should refer to their current class schedule in the MyTriton portal for specific withdrawal dates for each term.

All requests for exceptions to this policy must be made in writing on a General Petition form and submitted to the Welcome Center in the Student Center within one calendar year of the start date of the semester in dispute.

Subject to revision by the Triton College Board of trustees without prior notice.

### Tuition Refunds/Credit Vouchers for Students Called to Active Military Service

Any active student who is required to withdraw from classes during his/her regular semester or summer term due to active military obligations will be entitled to a full refund of tuition or credit voucher (unless paid by a state/federal agency) upon evidence and notification to the college within the semester or term of withdrawal.

## Financial Obligations

All Triton College students have the responsibility to make tuition and fee payments by established due dates. The Bursar's Office will determine when a student is in default of a required payment. It is the policy of Triton College that the following take place:

1. The student's records will be sealed and not made available to the student until all financial obligations are met in full.
2. The student will not be permitted to enroll in additional courses until all financial obligations are met in full.
3. Students not meeting financial obligations will have their accounts referred to a collection agency. The fee associated with the collection agency is the student's responsibility, in addition to all unpaid tuition and fees.

## Reduced Tuition for Older Adults

Residents of the Triton College district who are 60 years of age or older may register for classes at reduced rates any time during regular registration periods. The reduced tuition rate is $6 per semester hour for arts and science and career education courses. Senior citizens over the age of 60, also are entitled to a waiver of registration fees ($5.00 per term).

Residents of the Triton College district who are 65 years or older may enroll in regularly scheduled courses during the late registration period without payment of tuition under the following conditions:

1. Annual household income $12,000 or less.
2. The class is not filled.
3. Enrollment of tuition-paying students exceeds the minimum number required for the course.

Proof of age and a signed declaration of annual income are required to qualify for the tuition waiver.

## Student Services Fee

This fee is charged to any student enrolled in one or more credit classes. This fee supports athletics, student activities, recreation programs, student organizations, Fifth Avenue Journal, extracurricular funding, internet access, Student Center operations and a variety of other programs and services offered by various campus departments.

Programs funded by this fee include:

Retention Programs
Career Days
Learning Resource Center
Student-based facilities
Commencement
Curriculum Related Seminars
Model United Nations
Model Illinois Government
Cultural Programs
Student Life Scholarships
Cernan Earth and Space Center
Swimming Pool
Leadership Recognition Programs
Emergency Service Vehicle
Internet

# Financial Aid


## Financial Aid and Veterans Affairs

The Office of Financial Aid and Veterans Affairs is available to assist eligible students in completing the application process for federal and state financial aid and veterans' benefits. Students eligible to apply for financial aid must be U.S. citizens or eligible non-citizens, have completed high school or a high school equivalency program, and must be planning to enroll in a degree or certificate program consisting of a minimum of 16 credit hours. Financial aid is not available to cover Adult Continuing Education classes, High School Equivalency (GED®, HiSET, TASC), English as a Second Language (ESL), or short-term training certificates requiring fewer than 16 credit hours to complete.

The process for applying for financial aid at Triton College requires the following two steps:

1. Complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.gov. A FAFSA on the web worksheet may be obtained from the Triton College Financial Aid Office.
2. Have your final, official high school or high school equivalency transcript sent to the Records Office at Triton College.

Once these two items have been reviewed, additional documentation may be requested.

Students are encouraged to complete the FAFSA beginning Oct. 1 of the fall prior to their expected first enrollment. While the Financial Aid Office will process applications throughout the year, students should apply as soon as possible after Oct. 1 due to the limited funding of certain grant programs.

Student financial aid programs involving grants, loans, scholarships, and employment will be available so that no qualified student will be denied an opportunity to receive a college education due to a lack of funds. Guidelines are developed and published by the Financial Aid Office.

No person will, on the basis of race, color, religion, sex, national origin, sexual orientation, disability, veteran status, age, or any other basis which is protected by law, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under the college's financial aid programs. The Financial Aid Office is located in Room B-160 of the Student Center, or call (708) 456-0300, Ext. 3155.

## Grants

Grants are monies that do not have to be repaid. Students who complete the FAFSA are applying for all federal and state based grants. The Federal Pell Grant can be used for tuition, fees, books, transportation, and other educational expenses.

The Illinois Student Assistance Commission (ISAC) Monetary Award Program (MAP) Grant may be used to pay in-district tuition and fees.

The Federal Supplemental Educational Opportunity Grant (SEOG) is awarded to the highest need students also receiving the Federal Pell Grant. SEOG can be used for tuition, fees, books, transportation, and other educational expenses.

To be considered enrolled in a course for financial aid purposes; you must be registered in the course before the 50 percent refund period for the class concludes. If you enroll in a course beyond the refund period, your financial aid

package will not reflect that course. Students may retake courses as often as desired; however, financial aid will only pay for a repeated course once after a course has been successfully completed.

## Loans

The Federal Direct Stafford Student Loan allows a student to borrow at a low interest rate. Repayment begins six months after the student ceases to be enrolled in six or more credit hours. A freshman level student may borrow up to $3,500 in a subsidized student loan and a sophomore level student may borrow up to $4,500 per year, if eligible. A dependent student may additionally borrow up to $2,000 in an unsubsidized loan and an independent student may additionally borrow up to $6,000, if eligible. New borrowers after July 1, 2013, are limited on the maximum period of time they can receive subsidized loans. If this limit applies, they may not receive subsidized loans for more than 150 percent of the length of their academic program. The maximum eligibility period is based on the published length of their current academic program (available in the course catalog). Loan funds may be used toward tuition, fees, books, transportation, and other educational expenses. Student loan information is available in the Financial Aid Office, Room B-160 of the Student Center, or call (708) 456-0300, Ext. 3045 for the loan specialist.

## Scholarship Opportunities

In an effort to reward students for their academic ability and involvement in community and school activities, Triton College offers prospective and current students the opportunity to apply for scholarships. Scholarships are available for students from a variety of sources. An updated list of available scholarships and applications can be found in the Scholarship Office located in the Financial Aid Office, Room B-160 in the Student Center or at www.triton.edu/scholarships.

In addition to institutional scholarships, the Scholarship Office has a list of scholarships available to students in specific areas of study, such as accounting, education, criminal justice, health careers, graphic arts/printing, etc. Information on these scholarships and those offered by a variety of service organizations is available in the Scholarship Office. The Financial Aid section of the college website also provides access to scholarship search engines in order to assist students in identifying nationwide scholarship information.

For more information, contact the scholarship coordinator at (708) 456-0300, Ext. 3616.

## Work Study

The Federal College Work Study Program enables a student to work 15-20 hours per week on campus. This is a need-based program and students must qualify for financial aid. Students who qualify for the program will work in various areas of the college as long as funds are available.

The Triton Work Study program is a non-need based program. The number of hours per week a student can work is based on the position and its allocation.

Students can find out more information on both programs through the Work Study Office located in the Financial Aid Office, Room B-160 in the Student Center, or call (708) 456-0300, Ext. 3616 for the work study coordinator.

Students wishing to work off campus may investigate job listings in the Job Opportunity Bulletin or stop by Career Services, Room A-204.

## Veterans Benefits

There are many military educational benefits available to eligible students. The Triton College Financial Aid Office coordinates processing for the following federal VA educational benefit programs:

- Montgomery GI Bill: for those who enlisted after July 1, 1985 (Chapter 30)
- Post 9/11 GI Bill: for those who served after September 11, 2001 (Chapter 33)
- Montgomery GI Bill: Selected Reserves (Chapter 1606)
- Montgomery GI Bill: Reserve Educational Assistance Program (REAP) (Chapter 1607)
- Montgomery GI Bill: Survivors and Dependents Educational Assistance (Chapter 35)
- Vocational Rehabilitation (Chapter 31)
- Tuition Assistance: administered through the Cashier's Office

Students receiving educational benefits through any of the above programs must be meeting the Standards of Academic Progress.

### Illinois Veterans Grant (IVG)

The Illinois Veterans Grant is available to Illinois veterans who have performed at least one year of federal active duty service in the U.S. Armed Forces; or who have served on federal active duty in a foreign country during a time of hostilities in that country and were honorably discharged after each period of federal active duty service. Students eligible for the Illinois Veterans Grant will be charged the in-district tuition rate. The program covers tuition and certain fees for the equivalent of four years of study. Students receiving educational benefits through the program must be meeting the Grade Point Average (GPA) component of the Standards of Academic Progress.

### Illinois National Guard Scholarship

The Illinois National Guard Scholarship is available to those who have completed one full year of service in the Illinois National Guard and are current Illinois National Guard members. Students eligible for the Illinois National Guard Grant will be charged the in-district tuition rate. The program covers tuition and certain fees for the equivalent of four years of study. Students receiving educational benefits through the program must be meeting the Grade Point Average (GPA) component of the Standards of Academic Progress.

### MIA/POW Scholarship Grant

The MIA/POW Scholarship Grant is available to eligible dependents of Illinois veterans declared by the Department of Defense to be a prisoner of war, missing in action, or to have died or become fully disabled as the result of a service-connected event. Students eligible for the MIA/POW Scholarship Grant will be charged the in-district tuition rate. The program covers tuition and certain fees for the equivalent of four years of study. Students receiving educational benefits through the program must be meeting the Grade Point Average (GPA) component of the Standards of Academic Progress.

### Approval Agency

Veterans benefits are approved by the Illinois State Approving Agency. For additional information relating to VA administered programs, contact the Office of Veterans Services at (708) 456-0300, Ext. 3531 or 3651, or stop by the Financial Aid Office, Room B-160 in the Student Center.

## Financial Aid Standards of Academic Progress Policy

Public Law 99-498 requires that you make satisfactory and measurable academic progress in order to be eligible for state and federally funded financial assistance. When you attend Triton College and receive aid from the following federal programs: Federal Pell Grant, College Work-study, Federal Supplemental Educational Opportunity Grant, Federal Veterans' Grants, Direct Student Loan (subsidized and unsubsidized), PLUS loan; or the following state programs: Monetary Award Program, Illinois Merit Recognition Scholarship, Police Officer/Fire Officer Dependent's Grant, Illinois Veteran' Grant (GPA only), MIA/POW Scholarship Grant (GPA only), Illinois National Guard (GPA only); or any other programs covered by regulations of the U. S. Department of Education, federal or state law, you must meet the following standards:

1. **To make satisfactory academic progress for financial aid, you must meet the following criteria:**

a. **Successful completion of courses (quantitative standard).** Students will be measured for the quantitative standard at the end of each semester. Students must successfully complete and receive credit for a minimum of 67 percent of all college level and college success courses attempted cumulatively, regardless of receipt of financial aid. The percentage can be calculated by dividing the successfully completed credit hours by the number of credit hours the student attempted.

If at the end of a semester, a student has not successfully completed a minimum of 67 percent of all credit hours attempted cumulatively, the student will be placed on Financial Aid Warning for the next semester attended.

If at the end of the "Warning" semester, the student has not successfully completed a minimum of 67 percent of all credit hours attempted cumulatively, the student will be placed on Disqualified Status, and will not be eligible to participate in financial programs in future terms.

All grades of "A", "B", "C", "D", "F", "P", "W", "I" and "R" are included in the calculation of credit hours attempted. Credit hours successfully completed toward the 67 percent are college and college success courses completed with a grade of "A", "B", "C", "D" or "P".

Students receiving an INCOMPLETE ('I') grade or late grade that places them on Financial Aid warning or Disqualified Status must complete the course in accordance with the 'Incomplete Grades' policy as outlined in the Triton College catalog. Financial Aid is not notified when a student finishes an incomplete class; therefore, the student must submit an appeal within the term to request that their financial aid be reinstated.

All attempted credit hours at Triton College will be counted toward the cumulative completion rate standards and the maximum time frame standards.

These include:

- College Success courses
- Repeated courses
- Withdrawn courses
- Non-completed courses

b. **Grade-point average (qualitative standard).** All students must earn a 1.0 GPA at the end of their first semester of attendance and must maintain a cumulative GPA of 2.0 after two semesters of attendance, regardless of receipt of financial aid.

c. **Program time frame** . Students must complete their program of study within an attempted 150 percent of the credit hours required for the program. Typically an associate degree will have a maximum time frame of 96 credit hours (64 credit hours x 150 percent). Certificates will vary more based on the credit hours required to complete the program. Maximum time frames will include all semesters of enrollment regardless of receipt of financial aid, and will include all evaluated transfer credit hours. Grades of "W," "I," "R" or "F" are considered to be hours attempted and are included in the maximum time frame.

2. **Financial Aid Academic Warning and Disqualification**
   a. Students who fail to maintain a cumulative GPA of 2.0 in any semester will be placed on Financial Aid Warning (except if the GPA is less than 1.0 in the first semester of attendance, then the student is disqualified).
   b. Students who fail to meet the required course completion (see A-1) in any semester will be placed on Financial Aid Warning. Students who receive the Illinois Veterans' Grant, National Guard Grant or MIA/POW Scholarship Grant, are exempt from the quantitative component of the Standards of Academic Progress. Students may receive financial aid while on warning status **without appealing.**
   c. Students who fail to meet the 1.0 GPA in their first semester of attendance will be placed on Financial Aid Disqualification Status.
   d. Students who fail to meet the 2.0 cumulative GPA requirement for two consecutive semesters or who fail to successfully complete their courses as stated in section A-1, will be placed on Financial Aid Disqualification Status.

   **Students may not receive financial aid while on Disqualification Status. This includes eligibility for federal and state grants, loans, work-study and federal VA benefits.**

3. **Financial Aid Reinstatement**
   a. Students on Disqualification Status may appeal to the Financial Aid Standards of Academic Progress Committee if they have mitigating circumstances. Students wishing to appeal their status must obtain an official appeal form in the Financial Aid Office. All appeals must be complete, provide detailed information and supporting documentation about mitigating circumstances, and must be submitted in writing to the Financial Aid Office. Additionally, appeals must include an approved academic plan. Future appeals will only require an academic plan if there is a change in the program of study.
   b. Students who have been away from Triton College for a minimum of three years may be allowed to return on a "probationary" status for one semester. During that time, the student must make satisfactory progress or become disqualified for further financial assistance. Students who were disqualified at the time they ceased their prior enrollment will be required to submit an appeal for reinstatement.
   c. Students who are not reinstated by the committee may appeal again after they have successfully completed at least six credit hours of additional course work in a semester, unless the disqualification status is a result of having exceeded the program time fame as explained in A-3.
   d. Reinstatement of students who have exceeded the maximum program time frame will be considered for an extension only if they can document a change in academic program, and/or that they have taken College Success course work.
   e. Students have the right to appeal the decision of the Financial Aid Committee by submitting a typed statement to the financial aid administrator requesting a review of the committee's decision. The decision will be final.
   f. Students reinstated by the Financial Aid Committee and/or the financial aid administrator to a probationary status must meet the criteria for Standards of Academic Progress or the requirements of an academic plan from that point forward.

4. **Notification of Status**

   The Financial Aid Office will notify students when they have become disqualified. However, it is the students' responsibility to know their academic progress status and how it affects financial aid eligibility.

### Return of Federal Funds Policy

Students who withdraw from coursework in a semester may be required to return a portion of the federal financial aid that had been applied to their account. The final amount of financial aid earned will be based on the period of time the student participated during the semester. Students receiving federal funds who fully withdraw, either officially or unofficially, before the conclusion of the semester, are subject to a "Return of Title IV Aid" calculation established by the federal government. This calculation determines the portion of federal funds that were earned by the student up to the time of withdrawal. The withdrawal date (last date of attendance) will be determined by official withdrawal from classes by the student, or as reported by the instructor in cases of unofficial withdrawal. If the student withdraws beyond the 60% point in the semester, they are considered to have earned 100% of the federal financial aid they were scheduled to receive. Students enrolled in classes that do not span the entire semester are considered withdrawn if, at the time of

the withdrawal, they are not actively attending another class and have not provided written confirmation of anticipated return in the semester for a late start class. Federal financial aid disbursed in excess of the earned amount must be returned to the federal government. The college will perform the "Return of Title IV Aid" calculation within 30 days of the date of determination that a student has completely withdrawn and return any unearned federal funds it is responsible for returning within 45 days of the date the school determined the student withdrew. If the student previously received a refund from financial aid, which was to be used for education-related personal or housing expenses, they may be required to return a portion of those funds to the college. When the college returns a student's unearned funds to the government, they will be billed for any balance due for any unearned refunds received or institutional charges that are now unpaid as a result of the return of federal funds. If it is determined through a "Return of Title IV Aid" calculation that the Federal financial aid already disbursed to the student is less than the earned amount, the school will generate a post-withdrawal disbursement to the student no later than 45 days after the date of the school's determination that the student withdrew. Funds returned to the federal government based on the Return of Title IV Aid calculation referenced above, reduce the outstanding balances in individual federal aid programs. Federal financial aid returned by the student, the parent, or the college, are allocated in the following order:

1. Federal Unsubsidized Direct Loan
2. Federal Subsidized Direct Loan
3. Federal Direct Parent Loan (PLUS)
4. Federal Pell Grant
5. Federal Supplemental Educational Opportunity Grant (SEOG)

If financial aid is awarded after the conclusion of the semester, federal aid is awarded based on the courses completed for that semester. Students receiving federal financial aid and considering withdrawing from registered coursework should make an appointment with a Financial Aid Specialist to examine the implications to their financial aid.

# Student Services

## Counseling

Professional counselors assist students in exploring and clarifying career and educational goals, choosing programs of study and resolving personal issues. Counselors offer workshops throughout the academic year and assist students with accessing various resources. Department members are available to students on a walk-in basis and through individual appointments. To schedule an appointment with a Counselor, visit www.triton.edu/counseling, call (708) 456-0300, Ext. 3588 or visit Room B-140 in the Student Center. Appointments are not available in January and August. Service hours are 8:00 a.m.–7:00 p.m. Mondays through Thursdays, 8:00 a.m.–4:00 p.m. Fridays, and 9:00 a.m.–1:00 p.m. Saturdays, Aug. 11, 18 and 25, and Sept. 1 only.

Services provided by the Counseling department include:

### Pre-Enrollment Counseling

Counselors are available to assist students before registration in determining the appropriateness of educational plans.

### Major Selection

Assistance is available in the selection of a program and curriculum that will meet the student's life and career goals.

### Transfer Planning

Individualized counseling is offered to students considering transferring to a four-year institution or other training/educational opportunities.

### Academic Planning

Counselors are available to help students complete a semester by semester guide of courses necessary to complete your degree.

### Meetings with College Representatives

Each semester Triton hosts individual visits of admission counselors representing more than 50 different colleges and universities. In addition, Triton sponsors several college fairs per year.

### Transfer Guides

Triton offers transfer guides for more than 50 colleges and universities. A transfer guide is a planning tool used to select appropriate Triton course work in preparation for transfer. Students can pick up transfer guides in Room B-140 in the Student Center or by appointment.

### Information and Referral

The Counseling Center makes available a variety of resources, publications and catalogs that provide information regarding personal growth, the world of work, careers and educational opportunities. Counselors also can help individuals become aware of agencies, services and personnel that may provide assistance beyond the limits of the programs offered by the college.

### Career Development

Through the use of self-evaluation techniques and career information, the student is led to a clearer understanding and realization of career goals. This may occur in individual counseling, workshops or credit courses.

### Personal Development

The student is assisted in personal development through individual conferences, small group sessions and referrals.

### Educational Development

The student is encouraged to develop college survival skills, including test taking, time management and study skills, through group workshops.

### Testing

Programs of standardized testing, both individual and group, are used to help students gain new information and insights regarding future career goals.

### Credit Courses

COL 102◊, Embracing the College Experience is a three-credit-hour course designed to prepare students to meet the challenges of the college experience. CSG 150◊, Career/Life Planning is a one-credit-hour course designed to enhance personal growth and career decision-making skills. CSG 296◊, Special Topics in Counseling, is a credit course on selected topics in the areas of counseling and may vary from semester to semester. The course may be repeated a maximum of four times when topics are different. All of these courses can be used as electives towards graduation.

### Student Optional Mental Health Disclosure

In accordance with the Student Optional Disclosure of Private Mental Health Act, Triton College provides the opportunity for students to authorize, in writing, the disclosure of certain private mental health information to a designated person. A designated person is defined by this Act as a parent, guardian, or other person over the age of 18 designated by a student to receive disclosure of certain private mental health information. The choice to designate a contact person is at the student's discretion. The Optional Student Mental Health Disclosure form is available in the student portal. For additional information, please visit www.triton.edu/counseling or call (708) 456-0300, Ext. 3588.

## University Center

Triton College offers students the opportunity to further their higher educational pursuits for select bachelor and master degree programs without leaving the Triton campus. Listed below are the programs offered through our University Center

Please visit http://www.triton.edu/UniversityCenter for more information. All University Partners are temporarily located in Room B-250.

### Benedictine University

- Bachelor of Science in Nursing (BSN) Completion Program
- Master of Public Health
- Master of Management and Organizational Behavior

Contact: Liliana Ascencio, lascencio@ben.edu (630) 829-6328
For more information or to request an application packet, please contact Benedictine Office of Admissions adultenrollment@ben.edu or call (630) 829-2277.

### Dominican University

- Bachelor of Arts in Legal Studies
- Bachelor of Arts in Human Services

Triton campus line: (708) 456-0300, Ext. 3429
Contact: Michael Morsovillo, mmorsovillo@dom.edu
or (708) 524-6793
Website: http://www.continuingstudies.dom.edu

### Eastern Illinois University

- Bachelor of Arts in General Studies

Triton campus line: (708) 456-0300, Ext. 3673
Contact: Jackie Janesku, jjohnson@eiu.edu or (217) 549-3347
Website: http://www.eiu.edu/bgs/

### Governors State University

- Bachelor of Arts in Criminal Justice
- Bachelor of Arts in Communication
- Bachelor of Arts in Information Technology
- Master of Arts in Criminal Justice
- Dual Degree Program (DDP)

Triton campus line (708) 456-0300, Ext. 3177
Contact: Michelle Sebasco, msebasco@govst.edu or
(708) 235-3983
For DDP contact: Juan Gonzales, Jgonzalez11@govst.edu or
(708) 235-7534
Website: http://www.govst.edu/

### National-Louis University

- Bachelor of Arts in Applied Behavioral Sciences, Early Childhood Education, Elementary Education or Special Education
- Bachelor of Science in Management or Management Information Systems

Triton campus line (708) 456-0300, Ext. 3979
Contact: Dawn Barreto-Brown, dbrown71@nl.edu or
(847) 947-5033
Website: http://www.nl.edu/t4/

### Southern Illinois University Carbondale (SIUC)

- Bachelor of Science in Industrial Management and Applied Engineering

Triton campus line (708) 456-0300, Ext. 3258
Contact: John Cooper, Ph.D., john.cooper@siu.edu or
(708) 779-4258
Website: http://engineering.siu.edu/tech/undergraduate/Industrial-Management-and-Applied-Engineering/

## Academic Success Center

The Academic Success Center (ASC), located in the lower level of the Learning Resource Center, A Building, Room A-106, offers free tutoring to all students enrolled at Triton in reading, writing, mathematics, sciences, business, accounting, social sciences, behavioral sciences, technology and health programs. Tutorial assistance is designed to encourage student success by strengthening study skills and by helping students apply these skills to coursework. Services also include interactive learning models, iPad 2 tablets, laptops, group study sessions and specialized academic and college skills workshop sessions.

All ASC tutoring is on a walk-in basis.

The ASC front desk, general information, career and science tutoring are located in Room A-106. The Math Zone is located in Room A-112, Ext. 3675. The Writing Zone is located in Room A-314, Ext. 3873. Health programs tutoring is available in the H Building, Ext. 3749.

For further information, call (708) 456-0300, Ext. 3341, stop by Room A-106 or visit our website at: www.triton.edu/asc.

## Math and Writing Zones

The Math and Writing Zones are located in Rooms A-100 and A-314. Both support areas principally support students in college success courses, but are open to all students on a drop-in-basis. The zones offers instruction by tutors, computer programs, videos and workshops. Students also can use the zone to prepare for their placement exam. For more information, call (708) 456-0300, Ext. 3693, or visit our website at: www.triton.edu/asc.

## Assistance for Students with Disabilities

The Center for Access and Accommodative Services (CAAS) provides academic accommodations and accessibility services for students who have disabilities. Students in need of services such as note takers, testing accommodations, sign language interpreters, alternate text materials, scribes, adaptive equipment or other accommodative services must make their request at the CAAS office. The CAAS office is located in the Learning Resource Center, Room A-137 and can be contacted at (708) 456-0300, Ext. 3854, or TTY (708) 456-0991.

## Triton Retraining Assistance Center

The Triton Retraining Assistance Center is a federally funded program which provides comprehensive counseling, retraining and placement assistance to workers who are unemployed due to layoff, plant shutdown and shifting industry needs.

The goal of the program is to return participants to quality jobs in the labor market. This is accomplished through counseling, assessment, retraining, job search assistance and job development. Training programs are offered in occupations where there is stability and growth so the likelihood of future displacement is minimized. The program pays 100 percent of training costs for one approved training program. More than 40 areas of study are offered.

Each participant attends an orientation, a counseling session and a pre-employment skills workshop where resumes are written and job search interviewing skills are developed. Participants are given a Triton College placement test to determine if basic skill remediation is needed before entering a training program. Counselors encourage participants to complete their GED if they lack a high school diploma.

The job search assistance component of the Triton Retraining Assistance Center offers job leads by telephone, computerized job leads mailed to participants' homes, mailing of participants' resumes to area employers and job development by program staff.

Unique to this program, participants continue to receive unemployment compensation while in training. Eligibility is determined by a person's previous work history, termination or lay off from employment and receiving or exhausted unemployment benefits.

For further information, call (708) 456-0300, Ext. 3331.

## Cooperative Education Program

The Cooperative Education Program is designed to enhance students' academic knowledge, personal development and professional preparation through a combination of classroom theory and practical work experience with area business and industry. Through this hands-on experience, students can test their career goals, gain an edge on the employment market and defray the cost of their college expenses while earning college credit.

Students interested in cooperative education should contact the Cooperative Education Office, Room A-204. For information, call (708) 456-0300, Ext. 3789.

## Career Services

The Triton College Career Services Center is located in Room A-204, A Building, steps away from the library. The center offers comprehensive career planning services to individuals who want to upgrade jobs, start new careers, or re-enter the workforce.

### Career Planning

Many students need help in learning about and identifying appropriate career paths. Through resources and assessments, Career Service provides advice and guidance to help students find the right career directions. Many students even learn about new career options that they have never

heard about or thought of before. Through the use of self-evaluation techniques and career information, the student is led to a clearer understanding and realization of career goals. For more information, call (708) 456-0300, Ext. 3619.

### Employment Assistance

Career Services is the key provider of employment and career management assistance at Triton. The center helps students, graduates and community members with the entire job search process - from initial assessment (finding the right career) to how to handle a job offer. Key services include: personalized assistance with resume and cover-letter writing; mock interview sessions to help with interview preparation; advice on networking for today; and free resources to assist with job searches. Career Services also has a robust list of current jobs through College Central Network, which can be accessed online.

In addition, the center offers a number of events throughout the year, including monthly job fairs, periodic job search workshops, monthly Job Club meetings, and several other presentations and events targeted to specific aspects of the job search - all open to the public.

Students and alumni can walk in anytime to receive help. Career Services also takes appointments, especially for more in-depth sessions. For more information, call (708) 456-0300, Ext. 3538 or 3619.

## Testing Center

The Testing Center offers placement testing, test proctoring services, and selected standardized testing for individuals and groups for selective program admission and certification. Throughout the year, the college offers placement testing in the areas of math, reading, and writing; counselors use the results to assist students in determining appropriate courses for their academic career. Test proctoring is offered for students enrolled in online classes or those taking a make-up exam.

Additionally, students may earn credit through Prior Learning Assessment. Prior Learning Credit is defined as credit awarded for demonstrated college-level learning gained through work, traditional and nontraditional educational experiences, and other life experiences. The learning must be relevant to the student's selected course of study at Triton College. Prior Learning Credit may be awarded through one of more of the following means:

- Advanced Placement
- College Level Examination Program
- DANTES Subject Standardized Tests
- Military Experience
- Portfolio Evaluations
- Proficiency Examinations
- Transfer Credit
- International Baccalaureate
- Seal of Biliteracy

The CLEP allows students to earn up to 30 hours of credit in the five general areas of English; humanities and fine arts; mathematics; physical and life science; and social and behavioral science/history. The DSST program gives students the opportunity to receive proficiency credit for learning acquired outside the traditional college classroom. As a fully funded DSST Center, active duty military personnel are exempt from DSST fees for the first administration of each test. Proficiency credit and portfolio development allow students to pursue the option of earning credit or placement for their learning experiences. Triton College partners with the Council for Adult and Experiential Learning (CAEL) to provide credit for prior learning/portfolio evaluations. For additional information about CAEL, please visit their website at www.learningcounts.org. Additional information may be found under the section, Acceptance of Academic credit (p. 40). For more information, visit www.triton.edu/priorlearning.

WorkKeys is the group of assessments used to measure the skills needed to obtain the National Career Readiness Certificate (NCRC).

For more information about our testing program, contact the Testing Center at (708) 456-0300, Ext. 3252 or go to www.triton.edu/testingcenter.

## First Year Experience

The First Year Experience Program (FYE) focuses on the first-year students and their transition from high school to college. Our goal is to provide academic and social opportunities for first year students to connect with key campus resources and gain important leadership skills. Students may complete a college success course, attend various workshops, and even join a student organization.

The FYE program offers early engagement opportunities for students enrolling in college. Statistics show that students who are more engaged are more likely to be more successful in attaining a degree. The FYE program helps students establish patterns of decision-making and achieve an academic level that is essential for success in your college career.

Workshops include Student Services and Getting Involved, Academic Planning, Financial Literacy, Effective Study Strategies, How to Write a College Paper, How to prepare for your Finals and more. College Success Courses include COL 102◊ – Embracing the College Experience and CSG 150◊ - Career and Life Planning.

For more information, go to www.triton.edu/fye.

## Library

The Triton College Library, a center for interdisciplinary studies, is a state-of-the-art information literacy, research, and group and individual study center. Located at the north end of the A Building, it offers textbooks on reserve, 70 remotely accessible databases, access to print collections of 90 Illinois colleges and universities through inter-library loan, and services which include walk-in, online, and scheduled reference and research assistance, information literacy classes, programs, lectures, and panel discussions. All research assistance and information literacy education is conducted by professionally trained academic librarians. Additionally, the Library maintains a collection of more than 80,000 items and includes 4 reservable small group study rooms, a silent study space, computers and printers, and a laptop loan program available to currently enrolled Triton students.

Library hours during fall and spring semesters are:

7:30 a.m. to 10 p.m.—Mondays through Thursdays
7:30 a.m. to 4 p.m.—Fridays
9 a.m. to 3 p.m.—Saturdays
Closed—Sundays

For additional information, call (708) 456-0300, Ext. 3215 or 3698, or visit the Library website at: library.triton.edu.

## Educational Technology Resource Center

The Educational Technology Resource Center (ETRC) is Triton College primary computer lab with up-to-date technology and software. The ETRC supports Triton College students with all Online/Blackboard courses. Student support services include blackboard orientation, student email and student portal assistance. Students can contact the ETRC through email, telephone, walk-in and the online HELP form.

Educational Technology Resource Center (ETRC),
Room A-100
(708) 456-0300, Ext. 3361 or 3039
http://online2.triton.edu/Tritononline/support/support_form.cfm

ETRC hours during fall and spring semesters are:

8 a.m. to 7 p.m.—Mondays through Thursdays
8 a.m. to 4 p.m.—Fridays
9 a.m. to 3 p.m.—Saturdays, Aug. 11, 18, 25 and Sept. 1 only
Closed—Sundays

## Student Center

The Student Center is a place to meet other students and faculty, participate in campus activities, access campus resources, and enjoy diverse dining opportunities. The first floor of the Student Center houses Enrollment Services offices — Admissions, Counseling, Financial Aid and Veterans Services, and the Welcome Center. Located on the second floor of the Student Center are Student Services including the Student Government Association, Campus Ministry and other student activities, as well as the Records Office, the University Center, and the Veterans Resource Center. Faculty, staff, and community members are also able to visit the dining facilities — Café 64 and Bistro — on the second floor.

## Health Services

The Board of Trustees recognizes that health services should be made available to all students. The Health Service Office, (located in Room G-109), will provide the services of a registered nurse during scheduled class hours to care for emergency, illness or injury. Parents or next of kin will be notified of any serious illness or accident occurring at Triton College. If necessary, the student will be transported to a medical facility by ambulance. The cost of treatment shall be the responsibility of the student.

The following health services will be provided to all:

**Health Services:**

1. Caring of the ill and injured student.
2. Dispensing of non-prescriptive medications.
3. Referral to other health agencies
4. Offering of routine tests
5. Wellness and Health Education programming

*Note: Strict confidentiality is maintained at all times concerning any visits to the Health Services Office.*

Health Career students will need to meet additional specific health requirements. Consult the individual programs or the Health Services Office for further information at (708) 456-0300, Ext. 3359.

**Triton College/Student Policy for DrugFree Campus**

It is the policy of Triton College, District 504, to provide a "drug-free" campus environment as defined by college policy as approved by the Board of Trustees. The college policy is made available to all students via the student handbook and is disseminated throughout the college community.

Triton College prohibits the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance within the campus environment. Appropriate sanctions include but are not limited to:

1. Required participation in an approved chemical dependency program provided by the Student Assistance Plan (SAP)
2. Disciplinary warning
3. Suspension
4. Dismissal

Such sanctions will be imposed on students found to be in violation of this policy.

Substance abuse counseling is available via the Student Assistance Program. Information regarding the Student Assistance Program is available from the Counseling department. Additional information regarding the dangers of drug abuse is available in the Counseling Center, Triton College Library and Health Services.

### Alcoholic Beverage Policy

The use of alcohol at college functions is inconsistent with the institution's endorsement of the Drug-Free Schools and Communities Act Amendments of 1989 (Public Law 101-226) and its Drug-Free Campus Policy.

Alcoholic beverages may not be served on the Triton College premises except for instructional purposes (i.e., hospitality industry management and/or associated programming). In these cases, prior approval must be granted in writing through the supervising academic dean. In the service of alcoholic beverages for associated instructional purposes, the following procedures should be strictly followed:

- The serving of alcoholic beverages must be incidental to and not the primary purpose for the activity at which alcoholic beverages are served. Alcoholic beverages may only be served at catered events and associated with the delivery of a pre-approved instructional program.
- Alcoholic beverages may be served on those portions of the Triton campus that are used for food service and convention-type activities. The serving of alcoholic beverages shall be limited to participants in educational activities held in such facilities.
- No person under 21 years of age, nor anyone who is under the influence of alcohol or dangerous substances or who is disorderly in conduct, may serve, consume or dispense alcoholic beverages.
- Supervising faculty must demonstrate that they can comply responsibly with all the laws and college regulations pertaining to the use of alcoholic beverages on campus.
- No alcoholic beverages may be served until the Vice President of Business Services or designee shall be satisfied that there exists maximum insurance coverage limits so as to save harmless Triton College from all financial loss, damage and harm.

### Student Assistance Plan

At Triton College, student success is a primary concern. Services are provided to assist students both academically and financially. In cooperation with Perspectives, students can receive personalized attention when they need it, quickly and privately.

The Student Assistance Plan will help assess their problems and concerns. They will be referred for the appropriate treatment and follow-up will occur to ensure that the treatment was suitable for the student.

The first step to solving a student's problems is to contact a Triton counselor at (708) 456-0300, Ext. 3588. Students should tell the counselor that they are interested in the Student Assistance Plan. The counselor will connect them with a staff member of Perspectives who will work directly with the student. If the Triton Counseling Center is not open, students may contact the Perspectives directly at (800) 866-7556. The SAP counselor will assist the student as quickly as possible.

### Tobacco and Smoke Fee Campus Policy

Triton College is dedicated to providing a healthy working environment for all of its students, employees, and guests.

By operation of state law and this Policy, effective July 1, 2015, smoking is prohibited throughout Triton College. This prohibition shall apply to all property owned, maintained, leased or otherwise utilized by Triton College. Smoking is prohibited in all indoor locations, including College vehicles, and outdoors on all College property.

This Policy shall also prohibit any sale, consumption, free sampling, distribution or advertising of any and all tobacco products, including but not limited to those identified in the "definitions" herein, on College property. No individual on College property shall litter or otherwise dispose of tobacco waste products on Triton College property.

1. Beginning July 1, 2015, Triton College shall post signs to indicate a "Smoke-Free Campus" or utilize the international "No Tobacco" symbol. Such signs shall be placed at critical Campus areas, including but not limited to building entrances. This Policy shall apply even in areas where signs are not posted.
2. The Triton College website shall indicate that all Campus property, vehicles and satellite locations are smoke free and shall include a campus map indicating the areas in which smoking is prohibited.
3. All organizations utilizing Campus property shall be informed of the Smoke Free Campus Policy and shall be responsible for informing attendees and enforcing the Policy.
4. Members of the Triton College community who fail to comply with this Smoke Free Policy will be subject to all penalties as prescribed by College Policy and applicable law.

   a. Student Non-Compliance

   Students failing to comply with this Policy shall be referred to the Dean of Student Services and may be subject to the Student Disciplinary Process.

   b. Employee Non-Compliance

   Employees failing to comply with the Policy shall be referred to the employee's administrative supervisor, and

be cited as prescribed by law.

c. Contractors/Sub-Contractor Non-Compliance

Non-compliance will be referred to the Campus unit responsible for monitoring performance of the applicable contract. The monitoring Campus unit shall determine whether termination of the contract is appropriate, and be cited as prescribed by law.

5. Any non-Triton student or non-staff individual smoking on Triton College property will be asked to immediately extinguish the tobacco product. Such violation will result in referral to the Campus Police Department.

#### Exceptions

In certain limited circumstances, an individual may request advance approval to allow smoking on Triton College property. Such exceptions will be granted only in the following limited situations:

#### Ceremonial Smoking

Individuals or groups interested in smoking as part of a ceremony on Campus property must seek advance approval from the Vice President of Business Services.

#### Smoking Research

Smoking may be allowed in an enclosed area on Campus property for a medical, scientific, or research program where smoking is an integral part of the research and the appropriate Campus research oversight body has approved the inclusion of smoking. Smoking research studies must receive advance approval from the Vice President of Academic and Student Affairs.

#### Definitions

For the purpose of this Policy, the following definitions shall apply:

"Smoking" means (1) lighting or burning any type of matter or substance that contains tobacco, including but not limited to cigarettes, cigars, cigarillos, pipes, beedies, kreteks, water pipes, bongs, and hookahs; (2) lighting or burning of non-tobacco plants or marijuana; and (3) using electronic cigarettes.

"Campus Property" means any property owned, leased, occupied, operated or otherwise controlled by Triton College, including but not limited to academic and auxiliary buildings, classrooms, laboratories, elevators, stairwells, restrooms, roofs, meeting rooms, hallways, lobbies and other common areas, athletic complexes and facilities, exterior open spaces, shuttle buses, shuttle bus stops, parking lots, driveways, loading docks, College-owned streets, sidewalks and walkways.

"Tobacco Products" means all forms of tobacco, including but not limited to cigarettes, cigars, cigarillos, pipes, beedies, kreteks, water pipes, bongs, and hookahs, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco and any non-FDA approved nicotine delivery device or product.

## Insurance

As a service, health and accident insurance applications are available for purchase by all registered students. This program is administered through the Health Services Office, Room G-109. Students seeking admission to Nursing and Allied Health programs must provide proof of valid hospitalization insurance as required by the program. Student Athletes are required to complete insurance information forms with the Health Services Office.

## Campus Ministry

The campus ministry members are on campus regularly and are responsible for providing the following:

1. Educational programming on economic and social justice issues
2. Pastoral counseling and spiritual direction
3. Information and opportunities for volunteer service
4. Retreat opportunities
5. Listening to the needs of the campus community

The ministry is available to all students, faculty and staff and is located in the Office of Student Life, Room B-240 in the Student Center. The ministry can be reached at (708) 456-0300, Ext. 3598.

## Housing

The college does not offer on-campus housing. However, the Housing Office does maintain a listing of off-campus housing available to students. This is a listing of rooms, apartments and homes in the area that have been listed by community residents, real estate and management companies. It is the student's responsibility to arrange appointments to view potential accommodations. The student will sign a lease directly with the landlord. This listing is published monthly in the Housing Opportunities Bulletin.

For more information, call (708) 456-0300, Ext. 3616.

## Child Care

The Triton College Child Development Center offers pre-school and toddler programs. Flex-time is a special program for students with children. While students attend classes, children learn in a safe, caring environment on the college campus.

A nominal fee per hour is charged. Children must be between the ages of 3 and 5 and must be toilet-trained.

Hours (based on enrollment) are:

7 a.m. to 5:30 p.m. — Mondays through Fridays.

The Triton College Child Development Center also offers a full-day Kindergarten from 8:30 a.m. to 3:30 p.m., Mondays through Fridays. All Kindergarten fees include before and after school care, a hot, nutritious lunch including two snacks, and all curriculum materials and supplies.

For an application and further details, contact the Child Development Center at (708) 456-0300, Ext. 3222.

## Campus Activities

Every attempt is made in campus activities to integrate students' formal academic studies with personal experiences that are integral to the total learning experience.

### Triton College Student Association

The Triton College Student Association (TCSA) is the umbrella organization for all of the student groups on campus and serves as the student government for the institution. Its purpose is to represent all students enrolled in a credit course at Triton College, approve allocation of Student Services fees, provide input on campus-wide student governance committees, establish the necessary framework for the implementation of activities for students and provide leadership for the student body.

The TCSA is made up of five executive officers and 25 student senators. Officer elections are held in April and Senate elections are held in September. To join a committee, contact the TCSA Office at (708) 456-0300, Ext. 3383. Meetings are open to the public and are held every Tuesday at 2:15 p.m. in the Senate Chambers, Room B-270 in the Student Center.

### CampusNet

CampusNet is a committee made up of executive board officers from all of the student clubs and organizations on campus.

The purpose of CampusNet is threefold: (1) to provide a president's network which acknowledges student leaders and sponsored events from the various student organizations recognized on Triton's campus; (2) to provide leadership development training to student organization leaders; and (3) to provide a mechanism for recruitment and retention of membership for the student organizations represented.

CampusNet represents all the student members of Triton's clubs and organizations. Meetings are open to all clubs and organizations and are held during the first week of every month throughout the school year. For additional information, contact the Clubs and Organizations office at (708) 456-0300, Ext. 3221.

### Phi Theta Kappa

In 1918, the presidents of eight junior colleges for women in Missouri met to organize an honor society to recognize academic achievement. Patterned after Phi Beta Kappa, the historic and prestigious honor society for four-year colleges, Phi Theta Kappa's initial letters (PTK) for the Greek words phrominmon, thuemos and katharotes mean wisdom, aspiration and purity.

The 70-plus years of Phi Theta Kappa history that provides this society with its unique identity, reached its most important milestone in 1929. In this year, the American Association of Junior Colleges (now the American Association of Community Colleges) recognized this organization as the official honor society of America's two-year colleges.

Today, more than 60,000 students, initiated by more than 1,000 chapters located in all 50 states, U.S. territorial possessions and other world countries, provide an unprecedented growth, no longer limited to a national commitment but of international accord.

On the local level, chapters belong to regions composed of a single state or a group of states. With more than 50 chapters, Illinois represents itself as a single state region. Chi Zeta chapter at Triton College exemplifies the four hallmarks of scholarship, leadership, fellowship and service.

Membership is extended by invitation. To be considered a student must:

1. be enrolled in an associate's degree program;
2. have completed at least 12 hours of course work in courses leading to the associate's degree;
3. have established a minimum cumulative grade point average of 3.5.

Students who have received an associate's degree are encouraged to join the alumni PTK organization.

More information concerning Phi Theta Kappa may be found in the student handbook, or from the office of Student Life in Room B-240 or by calling (708) 456-0300, Ext. 3752.

### Academic Co-Curricular Activities

The School of Arts and Sciences promotes a variety of student activities that support and extend the academic program. The student paper, *The Fifth Avenue Journal*, relies upon the work of students from mass communications, visual communications, creative writing and other areas. The Theater department offers four major productions each year. All students are welcome to audition or to work as technicians. Music faculty and students form the award-winning Triton *Jazz* Band, the Triton Community Concert Band and the Triton College Choir. Concerts and recitals are presented regularly. The Triton College Art Gallery features exhibitions of student, faculty, community and professional artists.

In the social sciences, Triton offers participation in two unique programs, Model Illinois Government (MIG) and Model United Nations (MUN). Students are selected to participate on a competitive basis. MUN gathers students

from around the nation and world to simulate the deliberations of the UN for a full week at UN Headquarters in New York. MIG gathers more than 200 students from around Illinois in Springfield to simulate the functioning of the Legislature.

In the sciences, Triton sponsors the Science Lecture Series. Two times each semester, prominent scientists and educators are invited to speak on their research and interests to students, faculty and staff.

Arts and Sciences also sponsor poetry readings and a poetry competition in the English department.

### Cernan Earth and Space Center

The Cernan Earth and Space Center on the Triton College campus in River Grove, presents planetarium programs to college classes, visiting groups and the general public throughout the year. A highlight of most planetarium programs is a tour of the current night sky and open question time with one of our knowledgeable educators.

Planetarium programs take audiences of all ages on dramatic voyages of discovery. Astronomy and space exploration are the most frequent topics, but some shows address other sciences such as geology, meteorology, engineering, and paleontology – even astrobiology. Other programs explore history, culture, art and music. The Planetarium also plays host to Cosmic Light Shows where brilliant lasers, digital effects and thousands of stars perform to the amazing music of The Beatles, Pink Floyd, Queen, Lady Gaga and more.

FREE public star parties are scheduled at least once a month when telescopes are set up for everyone to come and observe for free, weather permitting. While here, browse the Star Store's unique selection of gifts for science enthusiasts and explore the small exhibit area featuring an Apollo spacesuit and other artifacts related to Captain Gene Cernan. Captain Cernan was born in Chicago in 1934, graduated from Proviso High School, flew aboard the Gemini 9, Apollo 10, and Apollo 17 missions, and was the last astronaut to leave his footprints on the lunar surface in December 1972.

**For the latest program and schedule information:**

- Visit our website at triton.edu/cernan.
- Call our program information line at (708) 583-3100.
- Follow us on Facebook at facebook.com/cernancenter.
- Join our mailing list by sending your email address to cernan@triton.edu.

### Intercollegiate Athletics

The Triton College Athletic department welcomes all interested students to take part in intercollegiate athletics. All students must be full time and meet Grade Point Average requirements in order to qualify. The following sports are offered as part of the athletic program:

| **Men's** | **Women's** |
|---|---|
| Baseball | Basketball |
| Basketball | Softball |
| Soccer | Soccer |
| Wrestling | Volleyball |
| Track and Field | Track and Field |

Triton's athletic teams are nationally recognized throughout the country. It continues this strong tradition by winning championships, developing All-Americans and placing its student-athletes at four-year universities. As a member of the National Junior College Athletic Association (Region IV), Triton gives its athletes the opportunity to challenge the nation's top athletic programs.

For more information on any of these sports, call (708) 456-0300, Ext. 3784, or visit the Athletic Office in Room R-202 on the east campus.

### Recreational Activities

**Swimming Pool and Fitness Center**—The Triton College swimming pool is available for class credit or for personal fitness through enrolling in PED 108◊. The indoor pool is a six-lane, 25-yard pool. The Fitness Center can be used through a class (PED 106◊) and features full Super Circuit of Universal variable resistance equipment. The Fitness Center also includes high-tech Trotter equipment, Stairmasters, treadmills, a recumbent bike and a Concept II rower, backed by an indoor track. These facilities are located in the Robert M. Collins Center.

## Veterans Resource Center

Triton College Veterans Resource Center provides veterans, active duty personnel and their families with a welcoming environment that offers access to academic, career and community services. The Veterans Resource Center is located in the Student Center, Room B-280.

For more information, visit us at www.triton.edu/veterans.

# Academic Information

## Grading System

Triton College will use the following system of grading for all courses in all programs (except where indicated):

| | | |
|---|---|---|
| A | Excellent | 4 points per semester hour |
| B | Good | 3 points per semester hour |
| C | Fair | 2 points per semester hour |
| D | Poor | 1 point per semester hour |
| F | Failure | 0 points per semester hour |
| I | Incomplete | 0 points per semester hour |
| W | Withdrawn | No penalty |
| P | Pass | Non-credit only, no grade-point value |
| R | Reschedule | No penalty, no credit |
| T | Audit | No penalty, no credit |

Grades of "P" or "R"; "P" or "F" are assigned in specific approved courses based on individual academic department policy. (Students should contact the instructor for information on pass/fail grades.)

### Computing the Grade-Point Average

A student's overall academic record is stated in terms of a Grade Point Average (GPA). The formula for computing the GPA is as follows:

Grade points (see "Grading system" above) x semester hours graded "A" through "F"/semester hours graded "A" through "F" = GPA.

Example: If a student earns an "A" in a course with five semester hours of credit and a "C" in a course with two semester hours of credit, his/her GPA would be computed:

| | | | |
|---|---|---|---|
| 4 x 5 | = | 20 | grade points |
| 2 x 2 | = | 4 | grade points |
| | | 24 | grade points/seven total semester hours |

= 3.429 GPA.

## Academic Honors

Triton College encourages academic excellence and officially recognizes outstanding student achievement by designation to the President's Honors List for students with a semester grade point average of 3.75 or higher and Dean's Honors List for students with a semester grade point average of 3.50 to 3.74.

Records will be reviewed at the end of the fall and spring semesters to determine honors eligibility. No more than 50 percent of the semester hours completed during the period for which honors are awarded may be college success courses (numbered 001-099).

- **Full-time students** — Students who complete a minimum of 12 semester hours in one semester will be eligible for academic honors.
- **Part-time students** — Students who complete fewer than 12 semester hours during one semester will be eligible for honors when they have completed a total of 12 semester hours. Students' records will be reviewed for honors eligibility upon completion of each increment of 12 semester hours with no carry-over from the previous period of honors eligibility.

(Graduation honors are based on cumulative Grade Point Average.)

## Academic Support Programs

The Academic Support Programs are those areas of the college where students of all academic levels are assisted in successfully completing their programs. They offer direct instruction in college success mathematics, writing and reading, for students who need to begin their academic careers in those courses. Direct instruction also is offered in Literacy, High School Equivalency (e.g. GED®, HiSET, TASC) and English as a Second Language (ESL) through the Adult Education department.

All students are encouraged to take advantage of the tutoring services offered by this department. Students who are tutored have a much higher success rate than those who are not. Tutoring is provided at no cost to more than 4,000 students each year through the Academic Success Center, the MathPower Headquarters and the Writing Across the Curriculum Center.

For more information, contact the Academic Support Programs at (708) 456-0300, Ext. 3485 or 3470, or visit the Learning Resource Center, Room A-100. Additional information can be found on the Triton College website: www.triton.edu/asc.

## Scholars Program

The Scholars Program at Triton College offers a unique college alternative for academically superior students. Students admitted to the program can anticipate a demanding course of studies yielding an associate's degree and excellent opportunities to transfer to competitive four-year colleges and universities. Qualified students receive full in-district tuition and fee waiver, freeing their financial resources for the final two years of baccalaureate work. Students will be admitted to the program based on their academic ability and potential which is measured by:

- intent to enter Triton as a first-year student upon graduating from an in-district public or private high school
- an accumulated minimum Grade Point Average of 3.35 on a 4.0 scale; and above average SAT (or ACT) scores in Math and English
- intent to pursue an Associate in Arts (A.A.) or Associate in Science (A.S.) degree and to seek transfer to a four-year college or university upon completion of the Scholars Program two-year curriculum
- recommendations from at least one high school instructor and one guidance counselor
- completion of a student-written essay (to be submitted with the Scholars Program application)

The application process is managed in cooperation with the public high schools in the Triton district. I-20 Visa students are not eligible for this scholarship. For more information about the Scholars Program and an application form, contact your high school counselor or Dr. Michael Flaherty, Scholars Program director at (708) 456-0300, Ext. 3250. You may also contact the Office of the Dean of Arts and Sciences at Triton College at (708) 456-0300, Ext. 3529.

## Honors Study

The opportunity for honors study may be available through general petition into Scholar's Program (p. 35) course sections. These courses are designed, a maximum of two per semester, to provide an intellectual challenge for the serious student. Courses completed in the program can be noted on the student's official college transcript as "honors."

To qualify for the Honor's Program, students must have a Grade Point Average of 3.5 or greater in 12 hours of college-level credit courses completed at Triton. A tuition waiver for up to two courses will be provided upon admission to scholars' classes. Admission to scholars' classes does not indicate admission to the Scholar's Program.

For additional information, contact Dr. Michael Flaherty, director of the Scholar's Program at (708) 456-0300, Ext. 3250 or the Office of the Dean of the School of Arts and Sciences at Ext. 3529.

## Standards of Academic Progress Policy

The college is committed to helping students attain their educational goals. The Standards of Academic Progress are intended to identify students who seemingly are making little or no progress and help them correct academic weaknesses as early as possible. The standards include limits on the number of credits for which students may register and prescribe specific kinds of assistance. A student's academic progress will be reviewed at intervals of each 12 semester hours attempted.

- **Academic warning** — 6-12 semester hours attempted with completion of less than 50 percent of semester hours attempted or cumulative Grade Point Average of less than 2.00.

  Academic warning is indicated on the grade report. Students are required to review their academic program with a counselor prior to enrollment for the next semester.
- **Academic probation** — 13-24 semester hours attempted with completion of less than 50 percent of semester hours attempted or cumulative GPA of less than 2.00.

  Academic probation is indicated on the grade report. Students may enroll for a maximum of 12 semester hours and are required to review their academic program with a counselor prior to enrollment for the next semester. Students will be required to take COL 102◊, Embracing the College Experience. They also may be required by the counselor to engage in one or more of the following: (1)

college success courses, (2) CSG 150◊, Career/Life Planning, (3) workshops.

- **Academic suspension** — 25-36 semester hours attempted with completion of less than 50 percent of semester hours attempted or cumulative GPA of less than 2.00.

  Academic suspension is indicated on the grade report. Students are required to discontinue enrollment for one semester (fall or spring).

  Students are eligible to apply for readmission to the college after the suspension period. Admission will be on a petition basis; in order for readmission to be approved, the petition must present evidence of some change in the student's circumstances. The petition must be approved by a counselor.

  If a student is readmitted, the student must review his/her academic program with the counselor prior to enrollment for the next semester. Students may be required by the counselor to engage in one or more of the following: (1) an assessment program, (2) college success courses or (3) CSG 150◊ Career/Life Planning course.

- **Academic dismissal** — More than 36 semester hours attempted with completion of less than 50 percent of semester hours attempted or GPA of less than 2.00.

  Academic dismissal will be indicated on the grade report. Students are required to discontinue enrollment for one year.

  Students are eligible to apply for readmission to the college after the dismissal period (one year). Admission will be on a petition basis; in order for readmission to be approved, the petition must present evidence of some change in the student's circumstances. The petition must be approved by a counselor.

  If a student is readmitted, the student must review his/her academic program with the counselor prior to enrollment after dismissal and may be required by the counselor to engage in one or more of the following: (1) an assessment program, (2) college success courses or (3) CSG 150◊ Career/Life Planning course.

### Mandatory Enrollment in COL 102◊, Embracing the College Experience

The institution shall take a proactive position in order to identify students who can benefit by enhancing their non-cognitive skills and academic performance. In order to correct or improve on academic performance: 1. First-time college students pursuing an AA, AS, AFA or AGS who need enhancement in non-cognitive skills as determined by an assessment tool will be required to enroll in COL 102◊, Embracing the College Experience. 2. Students who have completed 12 credit hours and have a cumulative GPA below 2.0 shall be required to enroll in COL 102◊ in the next semester. 3. This policy shall be mandated for students placed on academic probation as a result of coursework completed during the previous 12 months.

## Responsibility of Student

It is the responsibility of the student to know and to observe the requirements of his/her curriculum and the rules governing academic work and college policies. Triton counselors are available to assist students; however, the ultimate responsibility for meeting all requirements and deadlines rests with the student.

For information on college policies and procedures, refer to the college catalog or the student handbook. Student handbooks are available online or through the Student Life Office, Room B-240 in the Student Center.

## Classroom Behavior

Access to higher education is a privilege. It is earned by one's prior academic achievement, one's demonstrated abilities and interests, and one's ability to benefit from instruction. Once gained by admittance to the college, the privilege needs to be guarded and maintained. Actions and behavior that violate the college's published administrative and academic policies and procedures, and academic records that do not meet the college's Standards of Academic Progress, may lead to student suspension from class or from the college. Students are especially reminded that appropriate classroom behavior is prescribed by the instructor. If an instructor determines that certain behaviors are disruptive or affect the instructional purposes of the classroom, the instructor may impose certain sanctions. These include suspension from the class for the day affected or a three consecutive school day suspension. The latter sanction must be accompanied by a written statement of the incident which must be sent to the dean of Student Services. The dean will conduct a hearing to resolve the case and may impose further sanctions, if warranted. In all cases, the student will be informed of all action taken on behalf of the college.

## Academic Honesty Policy

Triton College closely adheres to principles of academic honesty and integrity. The academic honesty policy is designed to inform students and faculty of the expectations and procedures associated with the honest pursuit of a Triton College education. Overall, academic achievement is a product of personal commitment, and investigation of knowledge, and a pursuit of independent and honest work, both in and out of the classroom. All forms of cheating deprive the student of achieving true academic success and are therefore, considered a serious violation. Furthermore, all incidents of cheating will result in a disciplinary response from college officials.

Below is a non-inclusive list of behaviors that are considered to be violations of academic honesty.

**Examples of Academic Dishonesty**

- copying someone else's work or answers
- allowing another student to copy your work or answers for internal or external class assignments
- using materials or information hidden on one's person during quizzes and examinations
- obtaining and using tests and answers in an unauthorized fashion
- providing course materials such as papers, lab data, reports, or answers to be used by another student
- fabricating information for the purpose of completing an assignment, quiz, exam or presentation
- taking an exam in place of another student or having someone take an exam in your place
- turning in the same paper to two different classes without receiving permission from both instructors
- copying a computer program for unauthorized use
- breaking into or utilizing college owned computer files in an unauthorized manner
- altering a grade sheet or forging a signature on an academic document

Another example of academic dishonesty, known as plagiarism, is less simple to define, but is nonetheless considered a serious violation. When using direct quotes or ideas created by someone other than yourself, it is imperative that the source of information be clearly identified. It is appropriate and acceptable to borrow ideas, thoughts and data from other sources as long as the original authors receive credit for their contributions through referencing.

**Examples of Plagiarism**

- borrowing or paraphrasing (other than common knowledge) for a paper without referencing the source
- intentionally or knowingly representing the words or ideas of another as your own
- purchasing a term paper or having someone write a paper to submit as your own work

All members of the Triton College community including faculty, staff and fellow students share responsibility for maintaining an academically honest learning environment. Therefore, all members of the Triton College community are eligible to report apparent acts of academic dishonesty to the Dean.

Below is a non-inclusive summary of consequences that may result from student violation of the academic honesty policy.

**Consequences of Academic Dishonesty**

- a failing grade for the assignment in question
- a failing grade for the course
- placement on academic probation
- a notation on the academic transcript stating, "Student violated academic honesty policy" for a specific course
- an immediate suspension from the class for one or more class sessions
- administrative withdrawal from the course in question
- administrative withdrawal from the student's major or related majors as determined by the dean
- suspension or academic dismissal from Triton College

In cases which involve academic concerns, grievances will be initiated with instructor, department chairperson, and academic dean. The decision of the academic dean is final.

## Disciplinary Probation and Disqualification

Students who fail to comply with Triton Community College policies, regulations, and rules will be subject to disciplinary action, including dismissal from the College. Disciplinary hearings will be facilitated through the Dean of Student Services office or designee, and conducted by the Student Conduct Committee. The Student Conduct Committee will be appointed by the Vice President of Student Affairs and membership will be reviewed on an annual basis.

In cases of suspension or dismissal, the decision of the Student Conduct Committee may be grieved through the Student Life Committee. Any student grievances must be submitted in writing within thirty calendar days of the disciplinary hearing to the Student Life Committee, Student Center, Room B-240, 2000 Fifth Avenue, River Grove, Illinois, 60171. The request for a grievance hearing must include a brief summary of the alleged incident in addition to reasoning as to why the disciplinary process did not adequately serve the rights of the student who was deemed to be in violation of the academic honesty policy.

A student accused of violating College policies and/or regulations may be diverted from the disciplinary process if it is determined that the student is suffering from a psychological disorder and, as a result of the psychological disorder, engages or threatens to engage in a behavior which poses a danger of causing physical harm to self or others, or would cause significant property damage or impedes the lawful activities of others.

## Standards and Procedures for Voluntary and Mandatory Withdrawal

A student accused of violating college disciplinary regulations may be diverted from the disciplinary process if it is determined the student is suffering from a mental disorder, and as a result of the mental disorder:

1. engages or threatens to engage in behavior which poses a danger of causing physical harm to self or others, or

2. engages or threatens to engage in behavior which would cause significant property damage or impedes the lawful activities of others.

These procedures are outlined in the student handbook which is available on the student portal.

## Procedures for Regulating Student Performance in Clinical Education

Clinical education is an integral component of most Health Career programs. In these programs, students learn in a combined format of classroom, laboratory and clinical practice designed to develop safe, competent practitioners. In the clinical setting, the client's (patient's) welfare and safety must be considered. Therefore, it is important for students and faculty to follow procedures which are objective, consistent and fair when the student's clinical performance is unsatisfactory. Procedures for addressing unsatisfactory performance in a clinical setting are outlined in the student handbook, available on the student portal.

## Academic Placement

As a comprehensive community college, Triton College has a fundamental responsibility to provide educational opportunities for community residents able to benefit from college-level instruction.

In accordance with this objective, the institution expects all students to either possess at the time of admission or acquire through appropriate developmental coursework the basic reading, writing, and mathematical skills that are necessary for success in the course or program of study chosen by the student.

Therefore, the institution requires all new students enrolling in credit courses to take institutional placement tests in mathematics, reading, and writing prior to enrolling in their first course at the College. The following exemptions are permitted: prescribed ACT and/or SAT scores within the last two years in English, Reading, and/or Math; approved documentation of college level coursework in English and/or Math with a grade of "C" or better from a regionally accredited institution; or exceptions granted by an appropriate College Dean or designee.

The placement test results are valid for two calendar years. Students are allowed to retake the placement test once each year; they must allow a one-week waiting period before completing the first retest. A retesting fee will be charged for each subject area test. If students are currently enrolled in the discipline, they will only be allowed to retest after completion of the course in which they are enrolled. The highest scores will be used for placement.

Academic course placement may be based on the results of the placement exam, the high school GPA, and a non-cognitive assessment. There is no time limit on the high school GPA. Students scoring in the developmental range on the English placement test must enroll in appropriate college reading and/or writing courses prior to registering for 12 or more academic credit hours.

Upon instructor recommendation, a student may be referred to the Counseling Department for other assessment of academic skills. Based upon a basic skills assessment, the counselor may require the student to withdraw or take appropriate developmental courses.

Students, who do not possess a high school diploma or equivalent, may not receive financial aid until the "ability to benefit" testing requirement is fulfilled. These guidelines are in accordance with the Department of Education's "ability to benefit" regulations.

Students must submit a high school diploma or its equivalent to the Office of Admission prior to receiving Title IV aid at Triton College. Those students in English as a Second Languge (ESL), and High School Equivalency (e.g. GED®, HiSET, TASC) programs (who are enrolling in credit courses) may only be eligible to receive financial aid if they have taken the Test of Adult Basic Education (TABE) and score at Level D (or above), Forms 9 and 10 or 10 and 11 examinations.

## Schedule Changes/Withdrawals

Students who officially drop from courses during the schedule adjustment period — the first 5.5 percent of the class calendar days of each course — will not be assigned a grade for the course(s).

Students who do not officially drop/withdraw from courses in which they are enrolled may be assigned a failing grade ("F") even if they never attend the class. Add/Drop and Withdrawal forms are available from the Welcome Counter, Student Center and at each of the counseling offices.

The "W" grade will be assigned as follows when students officially withdraw from a course:

- Until 75 percent of the term has elapsed for courses scheduled.

**Students are responsible for official withdrawal from courses. They may withdraw through the MyTriton portal or in person at the Welcome Center. Any informal arrangements they make with the instructor or any other college staff member may result in a failing grade for the course. Withdrawal forms may be submitted to the Welcome Center in the Student Center.** Students should consult a current class schedule for specific withdrawal dates for each term. Students are encouraged to consult with the instructor, a counselor and/or the financial aid advisor (if applicable) prior to withdrawing from classes.

## Incomplete Grades

If a student is passing and misses the final examination with the authorization of the appropriate dean or fails to complete a major assignment, the instructor may assign a grade of "I" — Incomplete.

Removal of Incomplete — An "I" grade will become an "F" grade on the student's permanent record unless the required course work is completed within 30 calendar days after the beginning of the next regular semester (i.e., fall or spring term) or an earlier date determined by the instructor.

## Change of Grades

Students may challenge a final grade given by an instructor by first presenting their grievances to the instructor in question. Students may further pursue a grievance by consulting with the chairperson who supervises that instructor, and, finally, with the dean who supervises the chairperson. The decision of the academic dean will be final.

## Repeating a Course

Effective with the Summer 2013 term, students may repeat a course to improve a grade; however, they may not receive credit for the course more than once. Only the higher of the two grades will be used in computing the Grade Point Average (GPA).

The only exception to using the higher grade in GPA computation is for courses that may be repeated for full credit as designated in the "Course Descriptions" section of the college catalog. In such cases, students may submit the Petition for Repeated Course to the Records Office to request that all allowable grades be used in the recalculation of the GPA.

In all cases, both grades will remain on the student's official college transcript. This policy pertains only to courses taken and repeated at Triton College.

All grade point averages and associated honors, awards, and activities established prior to the Summer 2013 term are correct as stated.

## Auditing a Course

Students desiring to attend a class regularly, but not receive a grade or academic credit, may request to audit a course. Auditing of courses is not encouraged; however, in some cases, it may be permitted based on space availability. Students must first register for the desired course during the appropriate registration period. During the schedule adjustment period, students must obtain written permission from the instructor to audit a course. Students may not change the grading status after this period.

Students must pay the appropriate tuition and fees for the audited course. Audited courses are not eligible for financial aid or academic credit. Students will not receive a grade for the course. The course will appear on the official college transcript, but may not be applied towards a certificate or degree. To receive credit for a course previously audited, students must repeat the course for credit.

## Cancellation of Courses by the College

The college reserves the right to cancel any course for which there is insufficient enrollment or for other reasons as judged necessary.

## Semester Hour Course Load

Seventeen semester hours constitute the normal semester course load at the college. In some cases, it may take more than four semesters of 17 semester hours to complete the program requirements. In such situations, summer attendance or an extra semester may be necessary. A student is considered as "full-time" if the semester-hour course load is 12 hours or more.

For many students, a 17-semester-hour course load will be an extremely heavy schedule. New students should consider taking a lighter course load for the first semester. In unusual circumstances, it may be necessary for a student to carry more than the normal course load. Permission to carry such course load may be granted to individual students depending on their academic record and other pertinent factors. Such permission is only granted by a counselor or the dean of Enrollment Services or their designee depending on the proposed course load.

## Class Attendance

In as much as regular class attendance contributes substantially to learning, students are expected to attend all scheduled meetings of each course. However, since attendance requirements vary, the number of absences permitted also will vary from one course to another. Faculty will inform students of attendance policies in the syllabus per Board policy.

Students who are absent from class are responsible for the completion of assignments made during their absence.

Students may be terminated from class by the faculty for excessive absence or failure to begin attendance by the census date of the course. Students may petition faculty for readmission to classes.

## Privacy Act and Directory Information

Students will be annually informed of the Family Education Rights and Privacy Act of 1974 through the Student Handbook. Copies of the college's policy are available in the

Records Office (Room B-220 in the Student Center.)

A directory of records for all students will be maintained by the college. There will be three categories of directory information: 1) name, address, telephone number, dates of attendance and class; 2) previous institutions attended, major field of study, awards, honors and degree(s) conferred and associated dates; and 3) past and present participation in officially recognized sports and activities, physical factors such as height and weight of athletes and date and place of birth.

To withhold directory information from disclosure, students must notify the Admission and Records Office in writing at the beginning of each semester. Failure to make such a written request will indicate approval to disclose directory information by the college for any purpose, at its discretion. The vice president of Student Affairs will review and approve all requests for student directory information. Directory information will be provided when the vice president determines it is in the best interest of Triton College students. (All student records are maintained in the Records Office, Room B-220 in the Student Center.)

## Change of Student Records

In accordance with the provisions of the Family Educational Rights and Privacy Act of 1974, students may appeal the accuracy of their permanent record. This right to a hearing does not permit a student to contest the grade given by the instructor, but only the accuracy of the record that contains the grade. Appeals should be filed with Admission and Records, Room B-220 in the Student Center.

## Final Examinations

Final examinations/evaluations are held in all subjects according to the schedule. No examination will exceed two hours in length. No student will be excused from the final examination. Should any unusual circumstances develop requiring a special examination at a time other than which is scheduled, special authorization must be secured from the appropriate academic dean. Failure to secure this authorization will result in a final grade of "F" or, at the discretion of the instructor, in a reduced grade.

Under certain circumstances, special early examination arrangements may be approved.

## Transcripts

Transcripts, a permanent record of courses and credit, are provided by the Records Office. The fee is $3 per transcript. Students must complete a Transcript Request available in their student portal at www.triton.edu. The fee is subject to change.

## Acceptance of Academic Credit

Students who are seeking academic credit for courses completed at other institutions or through prior learning assessment must be currently enrolled in a degree or certificate program. Students must adhere to the Triton College residency requirements for graduation with a degree or certificate. To meet the residency requirements, students must complete at least 15 of the credit hours required to earn a degree or 50% of the credit hours required for a certificate, at Triton College. The following conditions apply:

Only those credits that are applicable to the student's curriculum at Triton College will be accepted.

### Transfer Credit

Academic credit is generally accepted only from institutions that are accredited by one of the regional accrediting associations approved by the Council on Higher Education Accreditation. All foreign/non-English transcripts must be evaluated by a NACES member. NACES stands for the National Association of Credential Evaluation Services. They can be reached at www.naces.org.

### CLEP

Triton College follows the guidelines of the Illinois Community College Board in accepting credit from the general examinations of College Level Examination Program. Students may earn up to 30 hours of credit through such examinations. For more information, visit www.triton.edu/CLEP.

**CLEP**

| General exam credit* | Triton credit awarded for CLEP general exam |
|---|---|
| English Composition - six semester hours credit | Three to six semester hours credit will be applied to communications general education requirements. If the student has completed RHT 101◊ or RHT 102◊, three semester hours of CLEP will be awarded. If the student has completed both RHT 101◊ and RHT 102◊, no CLEP credit will be awarded. |
| Humanities and Fine Arts - six semester hours credit | Three to six semester hours credit will be applied to humanities general education requirements or electives. |
| Mathematics - six semester hours credit | Three to six semester hours credit will be applied to mathematics general education requirements or electives. |
| Physical and Life Science** - six semester hours credit | Three to six semester hours credit will be applied to science general education requirements or electives. |
| Social and Behavioral Science - six semester hours credit | Three to six semester hours credit will be applied to social and behavioral science general education requirements or electives. |

*Students who earn six semester hours of CLEP credit in any of the five general exam areas are advised to enroll in advanced or specialized courses, as the freshman level or introductory courses may be repetitive.Students should consult with a counselor or an enrollment facilitator before registration.

****Students may not substitute CLEP credit toward a laboratory science course requirement.**

## Proficiency Examinations

Academic credit or advanced placement may be granted following either a review of the content of specific courses or proficiency examination in compliance with individual department policies and subject to approval by the department chairperson and the appropriate dean.

## Portfolio Development Program

Students with documented prior life or work experience that demonstrates college level learning and translates into having mastered the content of a Triton course may apply to receive credit through the portfolio development program in accordance with departmental policy.

## Military

The College follows the recommendation of the American Council on Education in granting four semester hours of undergraduate credit in physical education and two semester hours of credit for health for education received in Basic Training. In addition, courses completed in training may also be accepted for college credit.

## Sports Participation

Two semester hours of credit may be granted in physical education to students for approved sports participation on college teams. Students must register for a class that corresponds to the varsity sport to receive credit. Credits for such sports participation may be only granted once for a given sport.

| Sport | Corresponding P.E. Class |
|---|---|
| Baseball (Men's) | PED 127◊, PED 106◊ |
| Basketball (Men's and Women's) | PED 130◊, PED 106◊ |
| Soccer (Men's and Women's) | PED 128◊, PED 106◊ |
| Softball (Women's) | PED 127◊, PED 106◊ |
| Volleyball (Women's) | PED 129◊, PED 106◊ |
| Wrestling | PED 156◊, PED 106◊ |
| Track and Field (Men's and Women's) | PED 106◊ |

## Advanced Placement (CEEB)

Students earning a score of 3 or higher may be granted credit on any of the Advanced Placement (AP) Tests of the College Entrance Examination Board. For more information, visit www.triton.edu/AP.

## ASE Certification

The college follows the recommendations of the American Council on Education in granting credit for National Institute for Automotive Service Excellence (ASE) certification. Students enrolled in the Automotive Technology (AUT) degree(s) or a related certificate program may receive course credit for areas they are certified in by ASE. Interested students should contact the Counseling department at (708) 456-0300, Ext. 3588.

## DSST

The College follows the recommendation of the American Council on Education in granting academic credit for each successful completion of each Dante's Subject Standardized Test. Students may earn up to 30 credit hours through such examinations.

Students are responsible for submitting all required documentation to the Records Office and petitions requesting the granting of such credit. Credit awarded in this manner will be added to the semester hours earned but not the semester hours attempted or the grade points. Students may be allowed to apply prior learning assessment through credit-by- examination or portfolio development for a maximum of 50% of the required credit hours for degree or certificate completion.

## State Seal of Biliteracy

Students earning the State Seal of Biliteracy, the equivalent of two years of foreign language coursework taken during high school, are eligible to receive prior learning credit. Students interested in earning academic credit for this distinction must make this request to Triton College within three years after graduating from an approved high school.

### International Baccalaureate

Students may be granted college credit through successful performance on International Baccalaureate exams. Students are responsible for submitting the scores to the Record Evaluator's Office and for petitions requesting the granting of such credit. Credit awarded in this manner will be added to the semester hours earned but not the semester hours attempted or the grade points. Students must score the required score set by the department.

Acceptance of all prior learning assessment credits are subject to departmental approval. Triton College cannot guarantee that credits awarded through prior learning assessment will be accepted by another institution.

## Scheduling Solutions

Triton College provides a variety of class times, course lengths and locations to accommodate students' needs. Scheduling options include:

### Fast Track Classes

The Triton College Fast Track Program is an accelerated program which gives students the opportunity to complete their associate's degree by attending classes throughout the week or on the weekend. Students meet for longer class sessions than they would for semester-length classes, but they cover the same course content. Seven-week courses are offered at the beginning of each semester, as well as at midterm. Eight-week and five-week courses are offered during the summer session.

### Off-Campus Credit

A limited selection of daytime and evening classes are offered at Triton extension centers, including area high schools. This arrangement eliminates the time and cost of traveling to campus and allows students to attend classes close to home. (See community map in the back of this catalog for locations.)

### Weekend Classes

Weekend College is primarily designed for those individuals who prefer intensive weekends of study. There are different scheduling options. Some courses meet the full semester while others are Fast Track classes. By choosing from these many scheduling options, students can organize their classes around their jobs, family obligations and transportation needs.

## Distance Learning

Triton College offers a variety of classes through distance learning. This delivery method allows the student to complete online courses with limited or no required on-campus visits. An online course provides the same course content as a face-to-face classroom course. Triton College offers many online General Education courses and Career and Technical Education courses designed to provide flexibility for students to complete programs of study.

### State Authorization and Online Student Complaint Resolution

Triton College participates in the State Authorization Reciprocity Agreement (SARA). This arrangement authorizes the State of Illinois to take part in a system of interstate reciprocity that establishes national standards on distance education. States that are part of the SARA agreement can be accessed at www.nc-sara.org/sara-states-institutions.

In order to resolve concerns related to a complaint, out-of-state students enrolled in online classes at Triton College should attempt to resolve any issues or complaints with college faculty and administration first. Information about Student Complaint Procedures can be found in the Triton College Student Handbook (https://issuu.com/tritoncollege/docs/book4112012).

In addition, if you have a complaint that you feel has not been resolved through the Triton College Student Complaint Procedure you may file a complaint with the state in which you reside. Students may also register a complaint with the Illinois Community College Board (ICCB) Institutional Complaint system or the Higher Learning Commission. For instructions on how to register a complaint with the ICCB, please call 1-800-573-4604 or (217) 557-2741. The Higher Learning Commission institutional complaint system can be accessed at www.hlcommission.org/Student-Resources/complaints.html.

# Degree and Certificate Requirements

Triton College recognizes the educational achievement of its students by granting the associate in arts degree, the associate in science degree, the associate in applied science degree, the associate in general studies degree, the associate in fine arts degree, the career certificate and the advanced career certificate.

Students who complete a degree or certificate program without interruption must satisfy the requirements specified in the college catalog for the year in which they first enrolled. If degree or certificate requirements are changed after enrollment, the student may choose to satisfy the new requirements.

Those who re-enroll after withdrawal from the college for at least one year must satisfy the requirements specified in the catalog for the year in which they re-enter.

Academic procedures, regulations and fees are subject to changes that may go into effect at any time.

## Application of Certificates Toward Associate in Applied Science Degree

Students are allowed to apply credits earned in career certificates and advanced career certificates toward the associate in applied science degree (AAS). However, students who complete the requirements for the associate in applied science degree (AAS) and the career certificate in the same occupational area will not be eligible for simultaneous awards of the associate in applied science degree and the career certificate.

## Pre-Baccalaureate Degree Completion Opportunities

### Illinois Articulation Initiative

The Illinois Articulation Initiative (IAI) is a statewide agreement that allows transfer of the completed General Education Core Curriculum between participating Illinois institutions. Completion of the General Education Core Curriculum at any participating college or university in Illinois assures transferring students that lower-division general education requirements for an associate's or bachelor's degree have been satisfied. This agreement is in effect for students entering an associate or baccalaureate degree-granting institution as a first-time freshman in summer 1998 and thereafter. For a complete list of participating Illinois colleges and universities, visit the website at www.iTransfer.org.

### Compact Agreement

The articulation compact is an agreement between public and private four-year colleges/universities and Illinois community colleges. Graduates of Illinois community colleges who have completed an associate in arts (AA) or an associate in science (AS) degree are accepted as having "junior status" at the following colleges and/or universities: Aurora University, Chicago State University, Concordia University, Eastern Illinois University, Governor's State University, Illinois State University, Northeastern Illinois University, Northern Illinois University, Southern Illinois University, University of Illinois at Springfield and Western Illinois University.

AA and AS degree students transferring to these institutions are considered to have met the lower division general education requirements. Certain programs of study at the senior transfer institution may require additional prerequisites beyond those specified in the institution's general education requirements. For additional information, students are encouraged to contact their counselor.

### 2 + 2 Agreements

These agreements define two years of specific Triton course work that would allow for transfer into specific programs of study at participating four-year institutions. The agreement(s) also define(s) the two years of course work required at the senior institution for completion of the baccalaureate degree. For additional information, students are encouraged to contact a counselor.

### 3 + 1 Agreements

These agreements allow for 3 years of specific Triton coursework that would allow for transfer into specific programs of study at participating four-year institutions.

### Capstone Agreement

While the associate in applied science (AAS) degree is not intended to transfer, some participating four-year colleges will accept the AAS degree in its entirety for specific program majors (technology, criminal justice, etc.). Students should substitute transferable courses for those AAS degree requirements whenever possible. For a list of four-year institutions that participate in the capstone agreement, contact a counselor.

### Second Associate's Degree

A student may earn a second associate's degree by meeting the following:

1. The general education requirements for the second degree.
2. Program requirements for the second degree.
3. Completion of 15 additional semester hours in residence that do not apply to the first degree.

## Degree Graduation Requirements

Students must complete a minimum of 60 credit hours to earn a degree at Triton College while also completing all program requirements. (See the general education semester hour requirements.) Students are encouraged to meet with program specific counselors to determine if they have met the necessary requirements and/or to finalize a detailed list of courses needed to complete their degree/certificate program. Students may also verify program requirements via the student portal by selecting the **Academic Planning** tab under the **WebAdvisor for Students** section, then clicking the **Program Evaluation** link. For an accurate degree audit, verify the curriculum and catalog year are correct.

Once students are certain their program of study is accurate and all requirements met, an online graduation application may be submitted via the student portal by selecting the **Academic Planning** tab under the **WebAdvisor for Students** section, then clicking the **Application for Graduation** link. A separate application is required for each additional certificate or degree. Please be aware there are graduation deadlines each semester in order to participate in graduation. These dates can be found on the student portal, on Triton's website, and in the calendar section (p. 11) of the catalog.

The following requirements also must be met to qualify for graduation with an associate's degree:

### College Success Courses

College success courses (numbered 001-099) may not be used to meet graduation requirements. Courses numbered 001-099 taken prior to fall 1980 may not be classified as developmental. Contact a counselor for further information.

### Articulated Courses

Courses that have been articulated with at least three individual colleges or universities in Illinois or approved by an Illinois Articulation Initiative (IAI) panel are identified by the "◊" symbol following courses numbered 100-299 (i.e., RHT 101◊). Such courses include: 1) arts and sciences courses designed to transfer to colleges and universities; and 2) articulated career courses (with limited applicability to transfer institutions). When making transfer plans, students should check with the college or university they plan to attend to assure these courses will transfer. For more information consult with a counselor, or stop by the Walk-in Counseling Center in the Student Center, Room B-140.

### Physical Education Elective

A maximum of six semester hours of physical education activity courses (PED courses numbered below 150◊) may be used as electives to fulfill graduation requirements.

### Semester Hour Requirement

Students must complete the number of semester hours and all requirements specified for the particular curriculum in which the degree is awarded.

### Residence Requirement

Students must complete at least 15 of the credit hours required to earn a degree at Triton College.

### Grade-Point Average Requirement

Students in arts and sciences curricula must achieve a minimum cumulative Grade Point Average of 2.00 ("C" average) in all courses attempted. Students in career education curricula must achieve a minimum cumulative GPA of 2.00 in all courses used to fulfill graduation requirements. RHT 101◊ and RHT 102◊ must be a "C" or better to fulfill IAI and graduation requirements from Triton College.

### High School Transcript Requirement

You must submit official high school or GED transcript to fulfill graduation requirements.

## General Education Semester Hour Requirements

| Area | Degree Type | | | | | |
|---|---|---|---|---|---|---|
| | AA | AS | AGS | AAS | AFA | |
| | | ** | | * | Art | Music |
| **Communications** | 9 | 9 | 6 | 6 | 9 | 9 |
| **Social and Behavioral Science** | 9 | 6 | 3 | 6 | 6 | 6 |
| **Humanities and Fine Arts** | 9 | 6 | 3 | | 6 | 6 |
| **Mathematics** | 3 | 6-9 | 3 | 3 | 3 | 3 |
| **Physical and Life Science** | 7-8 | 10-11 | | | 8 | 8 |
| **Minimum general education semester hours** | 37-41 | 37-41 | 24 | 15 | 32 | 32 |
| **Program requirements & electives** | 23-27 | 19-23 | 40 | 45 | 30 | 35 |
| **Minimum semester hours for graduation** | 64 | 60-64 | 64 | 60 | 62 | 64 |

**Note: new requirements for the Associate in Applied Science Degree (***effective Fall 2015***)*

***Note: new requirements for the Associate in Science Degree (***effective Fall 2016***)*

## Certificate Graduation Requirements

The certificate is awarded to students in career education certificate curricula (up to 50 semester hours or more) who meet the following requirements:

### Course Completion Requirement

The certificate is awarded to students who complete all requirements specified in a certificate curriculum.

### Cumulative Grade-Point Average Requirement

Students must achieve a minimum cumulative Grade Point Average of 2.00 ("C" average) in all courses used to fulfill graduation requirements.

### Residence Requirement

Students must complete at least 50 percent of the credit hours required at Triton College.

### High School Transcript Requirement

You must submit official high school or GED transcripts to fulfill graduation requirements.

## Advanced Career Certificate Completion Requirements

Advanced certificates are career education certificates that require a substantive set of prior skills or knowledge base to build upon. They are awarded to students who meet the following:

### Course Completion Requirement

Advanced career certificates are awarded to students who complete all requirements specified in an advanced career certificate curriculum.

### Cumulative Grade-Point Average

Students must achieve a minimum cumulative GPA of 2.00 ("C" average) in all courses used to fulfill certificate completion requirements.

### Residence Requirement

Students must complete at least 50 percent of the credit hours required at Triton College.

### High School Transcript Requirement

You must submit official high school or GED transcripts to fulfill graduation requirements.

## Graduation Procedures

It is the student's responsibility to see that all graduation requirements are satisfied. Students are encouraged to consult with a counselor to monitor their educational progress.

A degree, career certificate or advanced certificate is not automatically conferred upon completion of Triton College curriculum requirements. Candidates must file a Petition for Graduation with a records evaluator according to published deadline dates. Deadline dates are listed in the calendar section of this catalog, various college publications and in the Office of Admission.

Candidates for May graduation, as well as August and December graduates, are encouraged to participate in the annual commencement exercises held at the end of each spring semester. Students completing any degree or certificate program will have up to one year to participate in a commencement ceremony. Exceptions will be approved by the dean of Student Services.

High Honors, designated by gold honor cords, are awarded at the annual commencement to graduating associate's degree students having a 3.75 or better cumulative Grade Point Average.

Honors, distinguished by red honor cords, are awarded at the annual commencement to graduating associate degree students having at least a 3.50 but less than 3.75 cumulative GPA.

Blue honor cords are awarded at the annual commencement to graduating students receiving career certificates, including advanced certificates, if they have a 3.50 or better cumulative GPA.

Students who have not attended Triton College for an uninterrupted period of five years may petition through a records evaluator to exclude all prior grades from the computation of the cumulative GPA to determine eligibility for graduation with honors.

## General Petitions

Students with special requests must submit a general petition signed by the proper authorities. A general petition is the formal vehicle used by students when requesting that the college initiate an action pertaining to student enrollment. Refer to the policy statement (p. 47) on the next page for specifics. General petitions are available on the website or at the Welcome Center in the Student Center.

# Approval Authority for General Petitions and Other Requests

| Academic Department Request | Approving Authority | Form Used |
|---|---|---|
| Evaluation of credit from non-accredited sources | Academic dean (after department chairperson) | General Petition |
| Substitution of course(s) required by student's curriculum (*Substitution of course may nullify requirements that fulfill the IAI General Education Core.) | Academic dean (after department chairperson) | General Petition |
| Waiver of course required by curriculum (*Waiver of course may nullify requirements that fulfill the IAI General Education Core.) | Academic dean (after department chairperson) | General Petition |
| Applicability of articulated career courses to AA/AS exceeding six credits | Academic dean — Arts and Sciences | General Petition |
| Admission into filled class | Instructor or department chairperson (if instructor is unavailable) and the academic dean | General Petition |
| Time conflicts | Academic dean (after instructor and department chairperson) or dean of Enrollment Services | General Petition |
| Admission into class after first day of class | Academic dean (after instructor and department chairperson) | General Petition |
| Extension of deadline to make up incomplete | Instructor, department chairperson, academic dean | General Petition |
| Change of grade (non-incomplete) | Academic dean (after instructor and department chairperson) | Change of Grade |
| Readmission into class after termination | Instructor | Petition for Readmission |
| Proficiency examination | Academic dean (after department chairperson) | Petition for Proficiency Exam |
| **Counseling Request** | **Approving Authority** | **Form Used** |
| Semester hour course load of 18-20 credits | Counselor, Room B-140 | Registration Form |
| Semester hour course load more than 21 credits | Dean of Enrollment Services, Student Center, Room B-120 | Registration Form |
| Summer semester overload of two or more semester hours | Dean of Enrollment Services, Student Center, Room B-120 | Registration Form |
| Readmission to the college after disqualification | Counselor | General Petition |
| Registration schedule adjustment | Welcome Center | Schedule Adjustment Form |
| **Admission/Records Request** | **Approving Authority** | **Form Used** |
| Evaluation of credit from accredited sources | Records evaluator, Student Center, Room B-220 | General Petition |
| Evaluation of credit from military service | Records evaluator, Student Center, Room B-220 | General Petition |
| Evaluation of Graduation Petition | Records evaluator, Student Center, Room B-220 | Graduation Petition |
| Course repeat for grade improvement (course repeated for full credit) | Records Office, Student Center, Room B-220 | Petition for Repeated Course |
| Joint Agreement—from District 504 | Records Office, Student Center, Room B-220 | Approval |
| Joint Agreement—to District 504 | Records Office, Student Center, Room B-220 | Approval |
| Tuition refund after refund period | Dean of Enrollment Services, Student Center, Room B-120 | General Petition |
| Posting of extra-curricular activities, awards on permanent record | Faculty advisor and dean of Student Services (submit to Records Office, Student Center, Room B-220) | General Petition |
| Request for evaluation of high school transcript to comply with Illinois Public Act 86-0954 | Records Evaluator, Student Center, Room B-220 | General Petition |

# Short-Term Professional Training and Continuing Education

## Programs for Lifelong Learning

Triton's Continuing Education programs provide community access to lifelong learning by providing courses, workshops, seminars and conferences at convenient neighborhood locations, as well as on the campus. All programs are based on a continuous assessment of community needs.

The Continuing Education Guide is sent to every home in Triton's district several times each year. The guide lists courses in a variety of categories. These courses focus on developing skills valuable to the work world and on constructive, enriching use of leisure time. Courses related to obtaining a job or enhancing a career include clerical skills training, accounting, real estate licensing, computer skills and many more. Leisure time courses teach auto care, gourmet food preparation, languages and photography, as well as yoga, aerobics and swimming. New courses are constantly being developed, many with the aid of community residents who have a desire to teach or learn something special. For information on general Continuing Education programs, call (708) 456-0300, Ext. 3500.

## Career Development

A major goal of Short Term Professional Training and Continuing Education is to provide assistance to district adults at various stages of their working lives.

### Short-Term Professional Training

Short-term training programs offered through the School of Continuing Education are designed for those who are seeking to upgrade their employment skills, enter new fields or gain skills to earn a second income. Many of these training programs are unique to Triton. Short-term training programs include computer software training, office executive, general office clerk, pharmacy technician, certified nursing assistant, paralegal, bookkeeping, and career enhancement seminars. For more information and orientation dates on short-term training programs, call (708) 456-0300, Ext. 3500.

### Center for Business and Professional Development

Besides the job preparation and professional development courses offered in the general Continuing Education Program, Triton also is committed to meeting the challenge of rapidly changing technology and regulations by designing and sponsoring programs to train, retrain and upgrade the skills of individuals in business and industry. The Center for Business and Professional Development (CBPD) offers on-site training programs tailored to the specific needs of local businesses. These programs are taught by experts in the fields of industry, business and government. Topics include management/supervisory development, technical training and computer software training. For information on these programs, call (708) 456-0300, Ext. 3489 or visit us on the web at www.triton.edu/ce.

### Center for Health Professionals

Center for Health Professionals develops and offers quality continuing education programs for health care providers and those interested in pursuing an entry-level position in health care or upgrading existing skill sets. Programs are designed with input from health professionals and professional associations to assist those in practitioner, supervisor/manager and educator positions to more effectively meet their responsibilities. Newly emerging concepts of health care, principles, theories and research findings — which will enhance the professional's knowledge and enable practice at increasingly higher levels of excellence — are presented. Programs are presented in health-care institutions, corporate offices and other sites, as well as on campus, and are offered at various times to accommodate the active health professional with specific scheduling needs. Call (708) 456-0300, Ext. 3709.

## Triton College Youth Programming

Every semester through Continuing Education, Triton offers a variety of programs for young learners ages 4 and up. From art to computer science, swimming to robotics, Triton College Youth Programming represents a constantly growing and expanding curriculum that strives to maintain its programming perspective to the world in which we live. Programs include: 1) specially designed age-specific courses open to all children ages 4-15; 2) courses scheduled on-campus and at select community sites.

Programs employ various teaching techniques and instructional activities using projects, presentation and discovery learning to fully enrich the learning of young people. Triton College Youth Programming's principal objective is to complement regular school schedules and activities with recreational and educational learning experiences aimed to engage and promote the development of a young person's interest and desire to learn. Through challenging, entertaining and enlightening topics and formats, Triton College Youth Programming's goal is to constructively contribute to an educational foundation that

inspires youngsters to be stimulated, motivated and encouraged about learning both today and tomorrow.

For more information on Triton College Youth Programming, call (708) 456-0300, Ext. 3500, or visit us on the web at www.triton.edu/ceyouth.

## The Lifelong Learning Series

The Lifelong Learning Series offers courses that are designed to provide intellectual, social, cultural, and recreational opportunities for adults, including seniors. These courses cover a variety of subjects including literature, drama, philosophy, fitness, swimming, dancing, music, computer literacy, driver education, and many others. Adults of all ages are welcome in all of Triton's programs, some special courses are also offered for seniors (age 60 and older). For more information about courses and other activities, call (708) 456-0300, Ext. 3500, or visit us on the web at www.triton.edu/ce.

## Cultural Programming

The Triton College Performing Arts Center is the setting for a variety of cultural activities ranging from ballet and plays to puppetry and musicals. The programs vary each year and offer district residents a cultural center in their neighborhood as well as trips to operas, plays and concerts. For information on current programs, call (708) 456-0300, Ext. 3757.

## Recreation and Self-Improvement

Triton encourages adults of all ages and educational backgrounds to turn leisure time into creative, productive opportunities. Adults can sample various kinds of exercise, games, sports, hobbies, crafts, art, music and dance. Qualified experts create informal classrooms in which participants can express themselves.

Self-improvement courses enable individuals and groups, young and old, to benefit from new skills. Many classes enhance the students' opportunities to learn for profit as well as pleasure. For more information, call Continuing Education at (708) 456-0300, Ext. 3500.

## RSVP Volunteer Program

A national volunteer program, locally sponsored by Triton College, RSVP provides individuals an opportunity to impact their community through volunteer service activities. RSVP volunteers serve in capacities, which call on their experiences, skills, training, interest and willingness to keep learning. A few volunteer service activities examples are friendly visitors, tax assistance, thrift store sorters, homeless shelter aide, clerical, advocate and career mentors. Volunteers play an important role; for volunteer opportunities and information, call (708) 456-0300, Ext. 3835 or 3603.

## Active Retired Citizens Club

The Active Retired Citizens Club (ARCC) is an activity and social club for community residents who are young at heart, and interested in expanding their social and intellectual life through adult education and community programs. ARCC meets twice monthly; the first and third Fridays of the month. Dues are $10. For more information call (708) 456-0300, Ext. 3896.

# Adult Education Programs

Adult Education (AE) programs are designed to assist students gain the skills or certification needed to take college courses or pursue career pathways that lead to better employment opportunities. The department is composed of the following areas: English as a Second Language (ESL), High School Equivalency (e.g. GED®, HiSET or TASC), Access to Literacy and Bridge to College programs. The AE division works closely with public libraries and school districts and other community-based organizations, in addition to various entities at the college.

For more information, please call (708) 456-0300, Ext. 3513.

## English as a Second Language (ESL)

English as a Second Language (ESL) is designed to build the reading, writing, listening and speaking skills of non-native English speakers. Classes are offered in the morning and evening to meet the needs of working adults. Classes are held at Triton and other locations throughout the district. In addition, the Adult Education Department offers citizenship courses. All classes are free. As classes tend to fill up quickly, early registration is strongly advised. For more information, please call (708) 456-0300, Ext. 3513.

## High School Equivalency Programs

These programs are designed to assist adults who do not have a high school diploma and wish to develop basic skills or prepare for the High School Equivalency Exam (e.g. GED®, HiSET, TASC). Classes are held in the morning and evening. Constitution review classes are offered on Saturdays. High School Equivalency courses are offered in Spanish and English.

For more information, please call (708) 456 0300, Ext. 3829.

### Adult Literacy

The Access to Literacy Program is designed to help adults develop basic reading and writing skills in English or Spanish. The goal of this program is to assist adults with emerging literacies to transition into ESL or High School Equivalency classes. Volunteer tutors are trained to assist students in small group or individual tutoring sessions. For more information, please call (708) 456-0300, Ext. 3978.

### Bridge to College Programs

**Allied Health:** Students are co-enrolled in High School Equivalency classes and courses in Medical Career Preparation, College 101, Medical Math or Introduction to Medical Terminology. Students develop solid background knowledge essential for a variety of college credit courses within a career pathway. Bridge programs in STEM and Business are also available.

For more information, please call (708) 456-0300, Ext. 3837.

# Arts and Sciences Programs

Courses in the Arts and Sciences curricula parallel those offered at universities and are transferable to four-year institutions. Students may complete the first two years of the bachelor's degree at Triton in the areas listed below.

Students will be audited for graduation against the prescribed associate in arts (AA), the Associate in Science (AS), or the Associate in Fine Arts (AFA) general education requirements. The remaining required semester hours should be completed according to the intended major at a four-year school.

Accounting & Business Administration*
Anthropology
Art (AA & AFA degrees)
Biological Sciences*
Chemistry*
Community Studies
Computer Science (Information Systems)*
Computer Science (Technical)
Criminal Justice Administration (AA, AS, & AAS degrees)*
Economics*
Education: Early Childhood, Elementary, Secondary and Special Education
English and Rhetoric
Environmental Science
Foreign Languages
Geology
Global Studies
Health, Sport & Exercise Science
History
Intercultural Studies
International Business
Mass Communication - Multimedia*
Mathematics*
Music (AA & AFA degrees)
Music Technology
Philosophy and Logic
Physics*
Pre-Profession

- Dentistry
- Engineering
- Medicine
- Nursing
- Nutrition/Dietetics
- Occupational Therapy
- Optometry
- Pharmacy
- Veterinary

Psychology*
Social and Political Science*
Sociology/Social Work
Speech Communication
Speech/Theatre*
Women's and Gender Studies

**Special Programs:**
Scholars/Honors
Independent Study
Pre-Profession

*IAI baccalaureate majors

### Notes for this section:

**# Prerequisites/Corequisites:** See the course description section of this catalog to ensure course prerequisites or corequisites are met prior to enrolling in courses. Students may petition for waiver of course prerequisites/corequisites if they believe they have comparable experience or completed course work with similar content. Counselors can assist in this process.

**◊ See Articulated Courses** for additional information.

**Degree graduation requirements:** In addition to fulfilling general education and program requirements, students must maintain a minimum grade-point average, meet public-law and residency requirements and complete proper filing procedures to graduate. For information, see degree graduation requirements (p. 44) in the "Degrees and Certificates" section of this catalog and the general education requirements (p. 101) for the Associate in Applied Science degree at the beginning of the "Applied Science Programs" section. Also see your counselor for assistance.

**Additional certificate requirements:** In addition to fulfilling certificate program requirements, students must maintain a minimum grade-point average, meet residency requirements and complete proper filing procedures to receive their diplomas. For information, see certificate graduation requirements (p. 45) in the "Degrees and Certificates" section of this catalog. Also see your counselor for assistance.

## Transferring to a Four-year Institution

It is important for students to plan for transfer to a senior institution as early as possible in their academic career. Triton College has Transfer Services located in Room B-140, to assist with transfer planning. A computerized transfer articulation system provides students with direct access to information regarding the transferability of specific courses to more than 50 Illinois colleges and universities. While attending Triton, students should contact the college or university to which they

intend to transfer to ensure transferability and to plan their Triton course work accordingly. Visits to these college campuses also are encouraged. Triton counselors are available to provide additional information to transfer students.

### Illinois Articulation Initiative

Triton College is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that allows transfer of the General Education Core curriculum between participating institutions. Completion of the General Education Core curriculum at any participating college or university in Illinois assures transferring students that lower-division general education requirements for an associate's or bachelor's degree have been satisfied. This agreement is in effect for students entering an associate or baccalaureate degree-granting institution as first-time freshman in summer 1998 and thereafter.

The baccalaureate majors' recommendations build on the transferable General Education Core curriculum by identifying courses in the major and prerequisite courses that students need to complete to transfer as a junior, that is, with a minimum of 60 semester credits, into the specific major.

Students are strongly encouraged to complete an AA, AS or AFA degree prior to transfer, to facilitate the transferability of credits through the IAI. Nursing students may complete the AAS (Associate in Applied Science degree) and Music and Art students may complete the Associate in Fine Arts degree (AFA).

For more information on the IAI, students should see a counselor or visit the IAI website at http://www.iTransfer.org.

### Transferology® (formerly u.select)

Transferology® (formerly u.select) is an electronic advising system intended primarily for potential transfer students. Using the World Wide Web (https://www.Transferology®.org), Transferology® provides consistent and up-to-date information about degree requirements to students, counselors, faculty and administrators. Transferology® allows a user to view course equivalency guides, academic programs, course descriptions, transfer course evaluations and planning guides. Triton College participates as a sending institution in Transferology®.

## Foreign Language Options

Many colleges and universities require one or two years of a foreign language. Students should consult the college or university to which they plan to transfer.

Students with some foreign language background should contact a counselor for appropriate placement. Generally, a student with high school foreign language is placed as follows:

High School 0-2 years = 101 or 102 Triton Foreign Language

High School 2-3 years = 102 or 103 Triton Foreign Language

High School 3-4 years = 103 or 104 Triton Foreign Language

Foreign language placement tests can be taken at the testing center in the A Building, Room A-126.

Students enrolled in selected foreign language courses may choose to be graded on either the letter-grade (A through F) or the Pass/Reschedule system. For details, see the "Academic Information" section of this catalog. Students who demonstrate substantial academic progress in a course but attain a proficiency level below that required for a passing grade may be assigned the "R" grade (Reschedule). Students must inform the instructor of the grading option they have chosen before the fifth week of the semester (and a proportionate time period for less-than-semester-length classes). Students should consult with the institution to which they intend to transfer regarding the transferability of the "P" (Pass) grade.

Student interest in foreign language aptitude for business professions has resulted in an international business concentration at Triton. For information, see the International Business program description (p. 87) in the "Associate in Science degree" section of this catalog.

## Independent Study

Students enrolled in university transfer programs may pursue a maximum of four semester hours of independent study under the supervision of an instructor. Students must have completed at least 15 semester hours of college credit before enrolling for independent study. The Independent Study Proposal form, which includes guidelines, may be obtained from the Dean of Arts and Sciences Office, in the Liberal Arts Building, Room E-103.

## International Study Tours

Triton College sponsors international study tours each year.

For more information, contact the Office of the Dean of Arts and Sciences at (708) 456-0300, Ext. 3508.

## College Readiness

Triton's Department of College Readiness is committed to helping Triton's adverse students develop effective learning strategies and skills that will transfer to courses across the curriculum. By bridging gaps in students' reading, writing, Mathematics and study skills backgrounds, we provide a strong foundation for successful lifelong learning in college and beyond.

### Program Goals

After completing College Readiness coursework, a student will have demonstrated an ability to:

- read and comprehend college-level literary and informational texts independently and proficiently;

- produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience;
- employ learning and study strategy skills needed for academic success; and
- comprehend and apply basic principles of Mathematics and algebra.

Students enrolled in College Readiness are offered a program of instruction and tutoring. All these services are provided in a central location on the lower level of the Learning Resource Center, Room A-100.

**College Readiness Courses**

Instruction is offered in reading and study skills, writing, principles of pre-algebra, algebra, and geometry. All students are required to take Triton College's administered placement tests to determine whether the student places into these courses.

Upon placement and registration, the students will benefit from the special features of these courses, including reduced class size

| | | |
|---|---|---|
| RHT 085# | Introduction to College Reading I | 3 |
| RHT 086# | Introduction to College Reading II | 3 |
| RHT 095# | Introduction to College Writing I | 3 |
| RHT 096# | Introduction to College Writing II | 3 |
| RHT 097# | Companion to English Rhetoric and Composition I | 2 |
| RHT 099# | Learning Framework for College Reading and Writing | 5 |
| MAT 045# | Arithmetic and Pre-Algebra | 4 |
| MAT 055# | Algebra & Geometry I | 4 |
| MAT 080# | Preparation for General Education Mathematics | 5 |
| MAT 085# | Algebra & Geometry II | 5 |
| MAT 096# | Algebra/Geometry Review | 5 |

Students earn Triton College credit for each course. However, these credits do not transfer and do not count toward graduation. They do count toward a student's Triton Grade Point Average.

Like all Triton students, those enrolled in College Readiness courses are encouraged to take advantage of tutoring. All of these services are provided in a central location within the lower level of the Learning Resource Center, Room A-100.

### College Readiness Reading Course Requirements

The following sequence is advised for students to complete their Reading requirements:

**Step 1:** Before taking a Reading Placement Test, review the material at: www.triton.edu/placementtesting.

**Step 2:** Take a placement test in the Testing Center, Room A-126.

**Step 3:** The score received will indicate which level Reading course is best. The courses for which students are eligible will be on the evaluation form. Therefore, the class indicated on the form will be the starting point.

**Step 4:** Register for a Reading class during the first semester at Triton. *Do not wait* to take Reading classes until the last semester at Triton. This may very well delay graduation, as some courses or programs list a Reading requirement as a prerequisite.

### College Readiness Writing Course Requirements

The following sequence is advised for students to complete their Writing requirements:

**Step 1:** Before taking a Writing Placement Test, review the material at: www.triton.edu/placementtesting.

**Step 2:** Take a placement test in the Testing Center, Room A-126.

**Step 3:** The score received will indicate which level Writing class is best. The courses for which students are eligible will be on the evaluation form. Therefore, the class indicated on the form will be the starting point.

**Step 4:** Register for a Writing class during the first semester at Triton. *Do not wait* to take Writing classes until the last semester at Triton. This may very well delay graduation, as some courses or programs list a Writing requirement as a prerequisite.

### College Readiness Math AA or AS Course Requirements

The following sequences are advised for students to complete their Math AA or AS degree requirements:

**Step 1:** Before taking a Math Placement Test, attend one of the FREE Math review sessions designed to help students refresh their skills and prepare for the placement test or work through one of the self-study options provided by the Mathematics Department. Review sessions are offered at least once a month. Information about placement test preparation can be found at: www.triton.edu/placementtesting.

**Step 2:** Take a placement test in the Testing Center, Room A-126. Students may use a calculator during the exam.

**Step 3:** The score received will indicate which level Mathematics course is best. The courses for which students are eligible will be on the evaluation form. Many students need a refresher class before they are ready to take a course that will fulfill the degree requirements. Therefore, the class indicated on the form will be the starting point.

**Step 4:** Register for a Mathematics class during the first semester at Triton. *Do not wait* to take Math classes until the last semester at Triton. This may very well delay graduation, as some courses or programs list a Math requirement in a prerequisite.

# Arts and Sciences Programs Offered

## Curriculum

### Associate in Arts Degree

AAD.AA.AA (U224A)
**Art,** VPA.ART.AA (U224A50)
**Community Studies,** BES.CMS.AA (U224A07)
**Criminal Justice Administration,** CJA.CJA.AA (U224A43)
**Education,** EDU.EAE.AA (U224A13)
**English and Rhetoric,** ENG.RHT.AA (U224A21)
**Foreign Languages,** SOC.FLA.AA (U224A16)
**Global Studies,** SOC.GLB.AA (U224A06)
**History,** SOC.HIS.AA (U224A46)
**Intercultural Studies,** SOC.INT.AA (U224A05)
**Mass Communication—Multimedia,** VPA.MCM.AA (U224A09)
**Music,** VPA.MUS.AA (U224A51)
**Music Technology,** VPA.MUT.AA (U224A52)
**Philosophy and Logic,** BES.PHL.AA (U224A38)
**Psychology,** BES.PSY.AA (U224A42)
**Social and Political Science,** SOC.PSC.AA (U224A45)
**Sociology/Social Work,** BES.SWK.AA (U224A44)
**Speech Communication,** VPA.SPE.AA (U224A23)
**Speech/Theatre,** VPA.THE.AA (U224A22)
**Women's and Gender Studies,** SOC.WGS.AA (U224A15)

### Associate in Science Degree

ASD.AS.AS (U230A)
**Accounting & Business Administration,** BUS.ACC.AS (U230A06)
**Anthropology,** BES.ANT.AS (U230A31)
**Biological Sciences,** SCI.BIS.AS (U230A26)
**Chemistry,** SCI.CHM.AS (U230A28)
**Computer Science (Information Systems),** CIS.CSI.AS (U230A11)
**Computer Science (Technical),** CIS.CST.AS (U230A12)
**Criminal Justice Administration,** CJA.CJA.AS (U230A43)
**Economics,** SOC.ECO.AS (U230A08)
**Environmental Science,** SCI.ENV.AS (U230A29)
**Geology,** SCI.GOL.AS (U230A33)
**Health, Sport & Exercise Science,** HSE.PED.AS (U230A36)
**International Business,** SOC.IBU.AS (U230A07)
**Mathematics,** MAT.MAT.AS (U230A27)
**Personal Trainer,** see Applied Science Programs
**Physical Education,** U230A36, see Health, Sport & Exercise Science
**Physics,** SCI.PHY.AS (U230A34)
**Pre-Profession,** SCI.PPO.AS (U230A30)

### Associate in Fine Arts Degree in Art

VPA.ART.AFA (U250M50)

### Associate in Fine Arts Degree in Music

VPA.MUS.AFA (U250M51)

### Associate in General Studies Degree

GEN.GEN.AGS (L224A)

# Associate in Arts

## Associate in Arts Degree Requirements

**Curriculum AAD.AA.AA (U224A)**

**(64 semester hours required)**

For students who intend to pursue a Bachelor of Arts degree at a four-year school.

Students must meet the prescribed general education requirements listed below for the Associate in Arts degree and should complete the remaining required semester hours according to the requirements of the four-year school to which they plan to transfer. The "◊" symbol on courses means articulated courses.

*NOTE: The following AA degree requirements, effective summer 1998, meet the Illinois Community College Board's recommended model including the IAI General Education Core curriculum.*

**Communications:**

Three courses (nine semester credits)

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

***Note: Grade of "C" or better is an IAI requirement for** RHT 101◊ **and** RHT 102◊**.***

**Social and Behavioral Science:**

Three courses (nine semester credits), with courses selected from at least two disciplines.

**Graduation from an Illinois college or university requires satisfactory completion of one or more courses incorporating Human Diversity, which may be taken as a Social and Behavioral Science or a Humanities and Fine Arts course.**

| | | |
|---|---|---|
| ANT 101 ◊ | Introduction to Anthropology | 3 |
| ANT 102 ◊ | Introduction to Biological Anthropology | 3 |
| ANT 103 ◊ | Cultural Anthropology | 3 |
| ANT 105 ◊ | Digging Into Archaeology | 3 |
| ANT 150 ◊ | Cultural Contexts | 3 |
| ECO 100 ◊ | Principles of Economics | 3 |
| ECO 102 ◊ | Macroeconomics | 3 |
| ECO 103 ◊ | Microeconomics | 3 |
| GEO 104 ◊ | Contemporary World Cultures | 3 |
| GEO 105 ◊ | Economic Geography | 3 |
| GEO 106 ◊ | Regional Geography of Africa and Asia | 3 |
| HIS 121 ◊ | History of Western Civilization I | 3 |
| HIS 122 ◊ | History of Western Civilization II | 3 |
| HIS 141 ◊ | World History I | 3 |
| HIS 142 ◊ | World History II | 3 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| HIS 156 ◊ | African History | 3 |
| HIS 171 ◊ | History of Latin America I | 3 |
| HIS 172 ◊ | History of Latin America II | 3 |
| HIS 191 ◊ | History of Asia and the Pacific I | 3 |
| HIS 192 ◊ | History of Asia and the Pacific II | 3 |
| PSC 120 ◊ | Principles of Political Science | 3 |
| PSC 150 ◊ | American National Politics | 3 |
| PSC 151 ◊ | American State and Urban Politics | 3 |
| PSC 184 ◊ | Global Politics | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| PSY 201 ◊# | Introduction to Social Psychology | 3 |
| PSY 216 ◊# | Child Psychology | 3 |
| PSY 222 ◊# | Adolescent Psychology | 3 |
| PSY 228 ◊# | Psychology of Adulthood & Aging | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| SOC 120 ◊# | Social Patterns of Courtship & Marriage | 3 |
| SOC 131 ◊ | Social Problems | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |
| SSC 190 ◊ | Contemporary Society | 3 |

The Human Diversity requirement would be fulfilled by: ANT 101◊, ANT 103◊, ANT 150◊, GEO 104◊, GEO 105◊, GEO 106◊, HIS 141◊, HIS 142◊, HIS 156◊, HIS 171◊, HIS 172◊, HIS 191◊, HIS 192◊ or SOC 225◊.

**Humanities and Fine Arts:**

Three courses (nine semester credits), with at least one course selected from Humanities and at least one course from the Fine Arts.

**Graduation from an Illinois college or university requires satisfactory completion of one or more courses incorporating Human Diversity which may be taken as a Humanities and Fine Arts or Social and Behavioral Science course.**

The Human Diversity requirement would be fulfilled by: ART 114◊, HUM 165◊, HUM 170◊, or PHL 105◊.

**Humanities:**

| | | |
|---|---|---|
| ENG 101 ◊# | Introduction to Poetry | 3 |
| ENG 102 ◊# | Introduction to Drama | 3 |
| ENG 103 ◊# | Introduction to Fiction | 3 |
| ENG 105 ◊# | World Literature | 3 |
| ENG 113 ◊# | Classic American Authors Pre-Civil War | 3 |
| ENG 114 ◊# | Classic American Authors Civil War to the Present | 3 |
| ENG 170 ◊# | Introduction to Children's Literature | 3 |
| ENG 231 ◊# | Introduction to Shakespeare | 3 |
| HUM 104 ◊ | Humanities Through the Arts | 3 |
| HUM 151 ◊ | Great Books of the West I | 3 |
| HUM 152 ◊ | Great Books of the West II | 3 |
| HUM 165 ◊ | Introduction to the Latin American Experience | 3 |
| HUM 170 ◊# | Introduction to Women's and Gender Studies | 3 |
| IDS 101 ◊ | The Arts in Western Culture I | 3 |

| | | |
|---|---|---|
| IDS 102 ◊ | The Arts in Western Culture II | 3 |
| ITL 104 ◊# | Intermediate Italian II | 4 |
| PHL 101 ◊ | Introduction to Philosophy | 3 |
| PHL 102 ◊ | Logic | 3 |
| PHL 103 ◊ | Ethics | 3 |
| PHL 105 ◊ | World Religions | 3 |
| PHL 113 ◊ | Environmental Ethics | 3 |
| SPN 104 ◊# | Intermediate Spanish II | 4 |
| SPN 115 ◊# | Spanish for Heritage Speakers I | 4 |
| SPN 116 ◊# | Spanish for Heritage Speakers II | 4 |
| SPN 151 ◊# | Introduction to Spanish/American Literature I | 3 |
| SPN 152 ◊# | Introduction to Spanish American Literature II | 3 |

**Fine Arts:**

| | | |
|---|---|---|
| ART 110 ◊ | Looking at Art | 3 |
| ART 111 ◊ | Ancient to Medieval Art | 3 |
| ART 112 ◊ | Renaissance to Modern Art | 3 |
| ART 114 ◊ | Survey of Asian Art | 3 |
| HUM 104 ◊ | Humanities Through the Arts | 3 |
| HUM 170 ◊# | Introduction to Women's and Gender Studies | 3 |
| IDS 101 ◊ | The Arts in Western Culture I | 3 |
| IDS 102 ◊ | The Arts in Western Culture II | 3 |
| MCM 150 ◊ | Film History and Appreciation | 3 |
| MCM 151 ◊ | Cinema Appreciation | 3 |
| MCM 152 ◊ | Cinema History | 3 |
| MUS 110 ◊ | Listening to Music | 3 |
| MUS 215 ◊# | Introduction to Music History | 3 |
| MUS 216 ◊ | Music in America | 3 |
| SPE 130 ◊ | Introduction to Theatre | 3 |
| VIC 160 ◊ | History of Photography | 3 |

**Mathematics:**

One course (three semester credits)

| | | |
|---|---|---|
| ECO 170 ◊# | Statistics for Business and Economics | 3 |
| MAT 101 ◊# | Quantitative Literacy | 3 |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| MAT 117 ◊# | Math for Elementary School Teachers II | 3 |
| MAT 124 ◊# | Finite Mathematics | 3 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| MAT 134 ◊# | Introduction to Calculus for Business and Social Science | 5 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| MAT 235 ◊# | Calculus & Analytic Geometry III | 5 |

**Physical and Life Science:**

Two courses (seven to eight semester credits), with one course selected from the Life Sciences and one course from the Physical Sciences, including at least one laboratory course.

**Physical Science:**

| | | |
|---|---|---|
| AST 100 ◊ | Introduction to Astronomy | 4 |
| AST 101 ◊ | Astronomy of the Solar System | 4 |
| AST 102 ◊ | Astronomy of the Stars and Beyond | 4 |
| CHM 100 ◊ | Chemistry and Society | 4 |
| CHM 110 ◊# | Fundamentals of Chemistry | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| GEO 200 ◊ | Physical Geography: Weather and Climate | 4 |
| GEO 201 ◊ | Physical Geography: Maps and Land Forms | 4 |
| GOL 101 ◊ | Physical Geology | 4 |
| GOL 102 ◊ | Evolution of the Earth | 4 |
| GOL 103 ◊ | Environmental Geology: Aspects of Global Hazards and Change | 3 |
| PHS 100 ◊ | Introduction to Earth Science | 4 |
| PHS 141 ◊ | Application of Physical Science Concepts | 4 |
| PHS 142 ◊ | Science of Light and Music | 4 |
| PHY 100 ◊# | General Physics | 4 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| PHY 106 ◊# | General Physics (Mechanics) | 4 |

**Life Science:**

| | | |
|---|---|---|
| BIS 100 ◊ | General Biology | 4 |
| BIS 101 ◊ | Human Biology | 4 |
| BIS 102 ◊ | Human Heredity and Society | 4 |
| BIS 105 ◊ | Environmental Biology | 4 |
| BIS 108 ◊ | Biology of Humans | 3 |
| BIS 113 ◊ | Introduction to General Biology | 3 |
| BIS 114 ◊ | Microbes and Society | 3 |
| BIS 150 ◊# | Principles of Biology I | 4 |
| BIS 151 ◊# | Principles of Biology II | 4 |
| HRT 125 ◊ | Plants and Society | 4 |

**General Education Core:**

12 to 13 courses (37 to 41 semester credits)

- No more than two courses from any one discipline can be used to fulfill General Education Core curriculum requirements.
- While few baccalaureate institutions require a foreign or second language in their campus-wide general education requirements, **competency through two, three, or four college semesters (or the high school equivalent) in a single foreign/second language is required for the Bachelor of Arts degree at some universities, for all bachelor's degrees** in some colleges (such as Colleges of Liberal Arts), and for some bachelor's degree majors.
- **Community college students who intend to transfer should complete the foreign language courses required by their intended transfer institution, college within a university, and /or major, prior to transferring.**
- Students must earn a passing letter grade in each course used to fulfill requirements. Passing scores (based on national norms) on appropriate AP and CLEP exams may be used to fulfill requirements for students who earn an Associate in Arts or an Associate in Science degree prior to transfer. For other transfer students, receiving institutions will follow established credit policies.

**Transfer Major and Electives (23-27 credit hours)**

- It is recommended that students select the remaining courses from their major area of study of the IAI approved or articulated courses with a counselor.
- It is highly recommended that students enroll in COL 102◊, CSG 150◊ and HTH 104◊ or HTH 281◊.

## Art, Associate in Arts

**Curriculum VPA.ART.AA (U224A50)**

While the following sequence of courses is strongly recommended, students should select general education courses and plan the sequence for completing general education requirements in consultation with a member of the Counseling department. Students may select art electives that will best prepare them for transfer to senior institutions. Consultation with a counselor is highly recommended.

**Semester One:**

| | | |
|---|---|---|
| ART 111 ◊ | Ancient to Medieval Art | 3 |
| ART 117 ◊ | Drawing I | 3 |
| ART 119 ◊ | Two-Dimensional Design | 3 |
| | General education | 7-9 |
| | | **Subtotal: 16-18** |

**Semester Two:**

| | | |
|---|---|---|
| ART 112 ◊ | Renaissance to Modern Art | 3 |
| ART 116 ◊ | Color Composition | 2 |
| ART 118 ◊# | Drawing II | 3 |
| ART 120 ◊# | Three-Dimensional Design | 3 |
| | General education | 6-7 |
| | | **Subtotal: 17-18** |

ART 120◊: optional

**Semester Three:**

| | | |
|---|---|---|
| ART 125 ◊# | Life Drawing I | 3 |
| | Art elective | 3 |
| | General education | 12-14 |
| | | **Subtotal: 18-20** |

*Art elective: ART 141◊ if required by the institution transferring to*

**Semester Four:**

| | | |
|---|---|---|
| ART 126 ◊# | Life Drawing II | 3 |
| | Art elective | 3 |
| | General education | 12-14 |
| | | **Subtotal: 18-20** |

**Recommended Art electives:**

*Select courses that meet the BA requirements of your transfer college.*

| | | |
|---|---|---|
| ART 114 ◊ | Survey of Asian Art | 3 |
| ART 120 ◊# | Three-Dimensional Design | 3 |
| ART 135 ◊# | Ceramics I | 3 |
| ART 140 ◊# | Printmaking | 3 |
| ART 141 ◊# | Painting I | 3 |
| ART 142 ◊# | Painting II | 3 |
| VIC 100 ◊ | Graphic Design | 3 |

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Art courses or other electives for AA degree**

**Subtotal: 23-27**

*See ART course descriptions* (p. 185)

ART 112◊, ART 114◊: Courses also fulfill Humanities requirements in general education.

Students with an emphasis in two-dimensional pictorial arts are advised to select from a combination of ART 140◊, ART 141◊ and ART 142◊ for their Art electives. Students with an emphasis on three-dimensional media should select ART 135◊ for their Art elective. Students with an emphasis in Advertising Art should select their electives from the Visual Communication curriculum.

**Chairperson:** Dennis McNamara, Ext. 3597

## Community Studies, Associate in Arts

**Curriculum BES.CMS.AA (U224A07)**

The focus of Community Studies is designed to focus on aspects of the community with an emphasis on leadership skills and knowledge of community organizational processes. It will enable the student who wishes to take a leadership role to incorporate and develop skills necessary for participation in contemporary organizations. Students who are planning on transferring are advised to select courses that will transfer to the four-year school of their choice.

**Semester One:**

| | | |
|---|---|---|
| HTH 281 ◊ | First Aid & CPR | 2 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | Community Studies electives | 6 |
| | | **Subtotal: 17** |

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General Education electives must be selected from the AA Degree Requirements *and m*ust adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AA Degree Requirements* (p. 55) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

**Semester Two:**

| | | |
|---|---|---|
| PSC 151 ◊ | American State and Urban Politics | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Social and Behavioral Science | 3 |
| | General education/Mathematics | 3 |
| | Community Studies electives | 3 |
| | **Subtotal: 18** | |

**Semester Three:**

| | | |
|---|---|---|
| | General education/Physical and Life Science | 4 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Community Studies electives | 6 |
| | **Subtotal: 16** | |

**Semester Four:**

| | | |
|---|---|---|
| | General education/Physical and Life Science | 4 |
| | General education/Social and Behavioral Science | 3 |
| | Community Studies electives | 9 |
| | **Subtotal: 16** | |

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Community Studies electives for AA degree**

**Required Community Studies Courses:**

| | | |
|---|---|---|
| BUS 141 ◊ | Introduction to Business | 3 |
| SOC 210 ◊# | Sociology of Leadership | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**Select 13 to 17 credits from the following courses:**

| | | |
|---|---|---|
| ACC 101 ◊ | Financial Accounting | 4 |
| ACC 105 ◊# | Managerial Accounting | 3 |
| BUS 127 ◊ | Principles of Marketing | 3 |
| BUS 150 ◊ | Principles of Management | 3 |
| BUS 161 ◊ | Business Law I | 3 |
| BUS 200 ◊ | Introduction to Human Resource Management | 3 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| PSC 150 ◊ | American National Politics | 3 |
| PSC 184 ◊ | Global Politics | 3 |
| SOC 131 ◊ | Social Problems | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |
| | **Subtotal: 23-27** | |

***Note:*** *Courses taken to meet the General Education Core requirements cannot serve as Community Studies electives. Selection of Community Studies electives should be based on specific career goals.*

**Coordinator:** Victor McCullum, Ext. 3311

# Criminal Justice Administration, Associate in Arts

**Curriculum CJA.CJA.AA (U224A43)**

Concentration of courses that prepares students interested in transferring to a four-year school for a bachelor's degree in Criminal or Social Justice. The courses also provide a background for students interested in law, law enforcement, juvenile work, probation services, parole services, work release or half-way house counseling.

**Semester One:**

| | | |
|---|---|---|
| CJA 111 ◊ | Introduction to Criminal Justice | 3 |
| CJA 121 ◊ | Introduction to Corrections | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Physical and Life Science | 4 |
| | General education/Social and Behavioral Science | 3 |
| | **Subtotal: 16** | |

**Semester Two:**

| | | |
|---|---|---|
| CJA 181 ◊ | Juvenile Delinquency & Law | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Electives | 4-5 |
| | **Subtotal: 16-17** | |

**Semester Three:**

| | | |
|---|---|---|
| CJA 219 ◊# | Criminal Law I | 3 |
| HTH 104 ◊ | Science of Personal Health | 2 |
| | OR | |
| HTH 281 ◊ | First Aid & CPR | 2 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Mathematics | 3 |
| | General education/Physical and Life Science | 3 |
| | **Subtotal: 17** | |

**Semester Four:**

| | | |
|---|---|---|
| CJA 201 ◊# | Criminology | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Electives | 6-8 |
| | **Subtotal: 15-17** | |

*Electives: It is recommended that students select a minimum of 20 credits with a counselor from the Criminal Justice Administration area.*

*(Select courses that meet the BA requirements of your transfer college.)*

**Suggested General Education and/or Electives:**

| | | |
|---|---|---|
| ECO 102 ◊ | Macroeconomics | 3 |
| PHL 103 ◊ | Ethics | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |
| | One year of a foreign language sequence | 8 |

**Recommended Criminal Justice Administration Courses:**

| | | |
|---|---|---|
| CJA 161 ◊ | Administration of Justice | 3 |
| CJA 246 ◊# | Laws of Evidence | 3 |
| CJA 257 ◊# | Law Enforcement Administration | 3 |
| CJA 296 ◊ | Special Topics in Criminal Justice | 0.5 - 4 |

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Criminal Justice courses or other electives for AA degree**

**Subtotal: 23-27**

*See CJA course descriptions* (p. 204).

*See Associate in Applied Science degree in Criminal Justice Administration* (p. 127) *for more information. Also available are certificates in Corrections* (p. 128)*, Law Enforcement* (p. 128) *and Private Security* (p. 129).

**Coordinator:** Gregory Catena, Ext. 3327

# Education, Associate in Arts

**Curriculum EDU.EAE.AA (U224A13)**

An introduction to teaching as a profession in the American education system offering a variety of perspectives on education, including historical, professional, social, legal and ethical issues in a diverse society. The curriculum also includes how schools are structured, governed and operated. Observation and assessment skills will be fostered through field experience. Admission into baccalaureate degree programs is competitive and most senior institutions require a Grade Point Average of 2.5 or higher. A "C" or better is required in all coursework at Triton College and senior institutions. Completion of these courses alone does not guarantee admission into the senior institution.

**General Education Core:**

11 courses (35-37 semester credits)

**Communications:**

Three courses (nine semester credits)

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

**Social and Behavioral Sciences:**

Three courses (nine semester credits)

| | | |
|---|---|---|
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| PSC 150 ◊ | American National Politics | 3 |
| | Electives | 3 |

**Humanities and Fine Arts:**

Three courses (nine semester credits) At least one Humanities course and one Fine Arts course

**Social and Behavioral Sciences, Humanities and Fine Arts:**

Students must complete at least one three-semester hour course in "Non-Western or Third-World Cultures" either in the Humanities and Fine Arts category or the Social and Behavioral Science category. Courses may be selected from:

| | | |
|---|---|---|
| ART 114 ◊ | Survey of Asian Art | 3 |
| HIS 156 ◊ | African History | 3 |
| HIS 191 ◊ | History of Asia and the Pacific I | 3 |
| HIS 192 ◊ | History of Asia and the Pacific II | 3 |
| HUM 165 ◊ | Introduction to the Latin American Experience | 3 |
| PHL 105 ◊ | World Religions | 3 |

**Physical and Life Sciences:**

Two courses (eight to 10 semester credits) at least one Physical Science course and one Life Science course

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General Education electives must be selected from the AA Degree Requirements (p. 55) *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AA Degree Requirements* (p. 55) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

## Early Childhood Education (Birth to Grade 3/Age 8), Associate in Arts

**EDU.BTH.AA**

**Additional General Education Core:**
Six courses (19-20 semester credits)

**Mathematics:**
Two courses (seven semester credits)

| | | |
|---|---|---|
| MAT 117 ◊# | Math for Elementary School Teachers II | 3 |
| MAT 170 ◊# | Elementary Statistics | 4 |

*MAT 117◊, MAT 170◊: If these courses are not completed at Triton, a similar course will have to be completed at the transfer school.*

**Physical and Life Sciences:**
One course (four-five semester credits)

**Humanities and Fine Arts:**
One course (three semester credits)

**Social and Behavioral Sciences:**
One course (three semester credits)

**Health/Physical Development:**
One course (three semester credits)

| | | |
|---|---|---|
| ECE 118 ◊# | Health, Nutrition & Safety | 3 |

*ECE 118◊: If this course is not completed at Triton, a similar course will have to be completed at the transfer school.*

**Recommended Courses (up to 13 semester credits):**

| | | |
|---|---|---|
| ECE 110 ◊ | Early Child Development | 3 |
| ECE 111 ◊ | Introduction to Early Childhood Education | 3 |
| ECE 138 ◊# | Observation, Assessment, Curriculum and Guidance of Young Children | 3.5 |
| PSY 234 ◊# | Abnormal Child & Adolescence Psychology | 3 |

**One course selected from the two listed below:**

| | | |
|---|---|---|
| ECE 142 ◊# | Students With Disabilities in School | 3 |
| EDU 200 ◊# | Introduction to Special Education | 3 |

**Area of Concentration Courses:**

Up to nine semester credits in **one** of the following disciplines selected in consultation with the counselor for education majors: Art, Biology, Chemistry, Economics, English, a single foreign language, History, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Theatre.

The student, in cooperation with the counselor for education, should carefully select one discipline for additional study because an additional nine semester hours of upper division course work will be completed in that one discipline at the transfer school. These courses may or may not be listed in the General Education Core Curriculum.

**Additional General Education Core Courses to meet the AA degree requirements:**

0-10 semester credits

## Elementary Education (Grades K through 9)

**EDU.EED.AA**

**Additional General Education Core:**
Six courses (18-19 semester credits)

**Mathematics:**
Two courses (six semester credits)

| | | |
|---|---|---|
| MAT 117 ◊# | Math for Elementary School Teachers II | 3 |
| MAT 170 ◊# | Elementary Statistics | 4 |

*MAT 117◊, MAT 170◊: If these courses are not completed at Triton, a similar course will have to be completed at the transfer school.*

**Physical and Life Sciences:**
One course (four to five semester credits)

**Humanities and Fine Arts:**
Two courses (six semester credits)

| | | |
|---|---|---|
| ENG 103 ◊# | Introduction to Fiction | 3 |
| | Humanities and Fine Arts | 3-4 |

*ENG 103◊: If this course is not completed at Triton, a similar course will have to be completed at the transfer school.*

**Health/Physical Development:**
One course (two semester credits)

| | | |
|---|---|---|
| HTH 104 ◊ | Science of Personal Health | 2 |

*HTH 104◊: If this course is not completed at Triton, a similar course will have to be completed at the transfer school.*

**Recommended Courses (up to 7.5 semester credits):**

| | | |
|---|---|---|
| EDU 203 ◊ | Portfolio Development for Educators | 1 |
| EDU 206 ◊# | Human Growth and Development | 3 |
| EDU 207 ◊# | Introduction to Education | 3.5 |

**Area of Concentration Courses:**

Up to nine semester hours of credit in **one** academic discipline at the sophomore level. Acceptable disciplines are: Art, Biology, Chemistry, Economics, English, a single foreign language, History, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology or Theater.

The student, in cooperation with the counselor for education, should carefully select one discipline for additional study because an additional nine semester hours of upper division course work will be completed in that one discipline at the transfer school. These courses may or may not be listed in the General Education Core Curriculum.

**Additional General Education Core Courses to meet the AA degree requirements:**

0 - 11 semester credits

## Secondary Education (Grades 6 - 12)

**EDU.SED.AA**

**Additional General Education Core:**
Five courses (15-19 semester credits)

**Mathematics:**
One course (three to five semester credits) selected from the following list:

| | | |
|---|---|---|
| MAT 101 ◊# | Quantitative Literacy | 3 |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| MAT 124 ◊# | Finite Mathematics | 3 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| MAT 134 ◊# | Introduction to Calculus for Business and Social Science | 5 |
| MAT 170 ◊# | Elementary Statistics | 4 |

**Physical and Life Sciences:**
One additional course (four to five semester credits) will be necessary if the student has less than nine semester hours in this category.

**Humanities and Fine Arts:**
Two courses (six to seven semester credits)

| | | |
|---|---|---|
| ENG 103 ◊# | Introduction to Fiction | 3 |
| | Humanities and Fine Arts | 3-4 |

*ENG 103◊: If this course is not completed at Triton, a similar course will have to be completed at the transfer school.*

**Health/Physical Development:**
One course (two semester credits)

| | | |
|---|---|---|
| HTH 104 ◊ | Science of Personal Health | 2 |

*HTH 104◊: If this course is not completed at Triton, a similar course will have to be completed at the transfer school.*

**Recommended Courses (up to nine semester credits):**

| | | |
|---|---|---|
| EDU 200 ◊# | Introduction to Special Education | 3 |
| EDU 203 ◊ | Portfolio Development for Educators | 1 |
| EDU 207 ◊# | Introduction to Education | 3.5 |

**One course selected from the following:**

| | | |
|---|---|---|
| EDU 206 ◊# | Human Growth and Development | 3 |
| EDU 215 ◊# | Educational Psychology | 3 |

**Additional General Education Core Courses to meet the AA degree requirements:**
0 - 15 semester credits

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General Education electives must be selected from the AA Degree Requirements (p. 55) *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AA Degree Requirements* (p. 55) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

## Special Education (Grades Pre-K through 12)

**EDU.SPC.AA**

Additional General Education Core:

Five courses (15-19 semester credits)

**Mathematics:**

One course (three to five semester credits) selected from the following list:

| | | |
|---|---|---|
| MAT 101 ◊# | Quantitative Literacy | 3 |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| MAT 124 ◊# | Finite Mathematics | 3 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| MAT 134 ◊# | Introduction to Calculus for Business and Social Science | 5 |
| MAT 170 ◊# | Elementary Statistics | 4 |

**Physical and Life Sciences:**
One additional course (four to five semester credits) will be necessary if the student has less than nine semester credits in this category.

**Humanities and Fine Arts:**
Two courses (six to seven semester credits)

| | | |
|---|---|---|
| ENG 103 ◊# | Introduction to Fiction | 3 |
| | Humanities and Fine Arts | 3-4 |

*ENG 103◊: If this course is not completed at Triton, a similar course will have to be completed at the transfer school.*

**Health/Physical Development:**
One course (two semester credits)

| | | |
|---|---|---|
| HTH 104 ◊ | Science of Personal Health | 2 |

*HTH 104◊: If this course is not completed at Triton, a similar course will have to be completed at the transfer school.*

**Recommended Courses (up to nine semester credits)**

| | | |
|---|---|---|
| EDU 203 ◊ | Portfolio Development for Educators | 1 |
| EDU 206 ◊# | Human Growth and Development | 3 |
| EDU 207 ◊# | Introduction to Education | 3.5 |
| PSY 100 ◊ | Introduction to Psychology | 3 |

**Additional General Education Core Courses to meet the AA degree requirements:**

0 - 14 semester credits

***Note:*** *Wherever specific courses are not identified, every effort should be made to utilize only IAI approved courses.*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Education courses or other electives for AA degree**

**Subtotal: 23-27**

*See EDU course descriptions* (p. 215).

***NOTE:*** *EDU 055 is the suggested course elective for the Basic Skills Review.*

**Chairperson:** Education, Mary Ann Olson, Ext. 3978

# English and Rhetoric, Associate in Arts

**Curriculum ENG.RHT.AA (U224A21)**

Courses in Rhetoric train students in the craft of writing and develop skills in critical thinking. Some courses are required; others may be selected as a basis for a major in English.

Courses in English introduce the major genres, survey American and British literature, and examine authors or special fields of literature. Some courses meet general education requirements and all contribute toward developing a major in the field.

**Recommended courses:**

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**Recommended electives:**

| | | |
|---|---|---|
| ENG 101 ◊# | Introduction to Poetry | 3 |
| ENG 102 ◊# | Introduction to Drama | 3 |
| ENG 103 ◊# | Introduction to Fiction | 3 |
| ENG 170 ◊# | Introduction to Children's Literature | 3 |
| ENG 231 ◊# | Introduction to Shakespeare | 3 |
| RHT 255 ◊# | Creative Writing | 3 |

*ENG 102◊, ENG 170◊, ENG 231◊, RHT 255◊: Not offered every semester.*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**English and Rhetoric courses or other electives for AA degree**

**Subtotal: 23-27**

*See ENG course descriptions* (p. 218).

**Chairperson:** Michael Flaherty, Ext. 3250

# Foreign Languages, Associate in Arts

**Curriculum SOC.FLA.AA (U224A16)**

The Foreign Language curriculum is designed to prepare students to participate in a highly competitive multi-cultural global society. Two years of foreign language study at Triton will, in most instances, fulfill curriculum foreign language requirements for advanced programs at many universities. Triton is prepared to help students make foreign language choices and take programs based upon their needs and plans for the future.

Career areas enhanced by foreign language skills include:

- Foreign language teaching in schools and colleges (also see Education (p. 59))
- International business or professional careers — international export, import, marketing, sales, investment, law, health, development, missionary, Peace Corps
- Tourism
- Research — scientific and social engineering
- Government service
- Airline positions
- Translating, interpreting
- Bilingual, administrative or secretarial work
- International banking and finance
- Law enforcement — local, national

**Semester One:**

Select one of the groupings for a total of 16 hours in Semester One

| | | |
|---|---|---|
| CHN 101 ◊ | Elementary Chinese I | 4 |
| | OR | |
| ITL 101 ◊ | Elementary Italian I | 4 |
| | OR | |
| SPN 101 ◊ | Elementary Spanish I | 4 |
| | General education | 12 |

**—OR—**

| | | |
|---|---|---|
| SPN 115 ◊# | Spanish for Heritage Speakers I | 4 |
| | General education | 9 |
| | General electives | 3 |

**Subtotal: 16**

**Semester Two:**

| | | |
|---|---|---|
| CHN 102 ◊# | Elementary Chinese II | 4 |
| | OR | |
| ITL 102 ◊# | Elementary Italian II | 4 |
| | OR | |
| SPN 102 ◊# | Elementary Spanish II | 4 |
| | General education | 12 |

**Subtotal: 16**

**Semester Three:**

| | | |
|---|---|---|
| ITL 103 ◊# | Intermediate Italian I | 4 |
| | OR | |
| SPN 103 ◊# | Intermediate Spanish I | 4 |
| | General education | 12 |

**Subtotal: 16**

**Semester Four:**

| | | |
|---|---|---|
| ITL 104 ◊# | Intermediate Italian II | 4 |
| | OR | |
| SPN 104 ◊# | Intermediate Spanish II | 4 |
| | General education | 9 |
| | Electives | 3 |

**Subtotal: 16**

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Foreign Language courses or other electives for AA degree**

**Subtotal: 23-27**

*See ITL course descriptions* (p. 241)*; SPN course descriptions* (p. 272)*, and CHN course descriptions* (p. 196).

***NOTE:*** *Italian and Spanish Composition and Conversation I and II (ITL 113◊ or ITL 114◊; SPN 113◊ or SPN 114◊) may be offered during the summer semester of the school year.*

The undecided transfer student should begin a foreign language in the first semester of the first year since two years of a foreign language are needed. It is desirable to complete the foreign language requirement before transferring. The student who does not complete the requirements may be asked to take a placement exam.

**Chairperson:** Bill Decker, Ext. 3509

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General Education electives must be selected from the AA Degree Requirements (p. 55) *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AA Degree Requirements* (p. 55) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

# Global Studies, Associate in Arts

**Curriculum SOC.GLB.AA (U224A06)**

Globalization has become a powerful force in the life of Americans everywhere, including those in our district. The impacts of globalization are most apparent in the economic aspects of life. The consequences of globalization are equally evident in our social, cultural and political interactions. This curriculum is intended to aide students in managing the issues of globalization in their personal and working lives, and to prepare them for further study in such fields as government, area studies, international business, diplomacy, the travel industry and socio-economic development.

Elements of this curriculum can also be adapted to support specialized programs in career education with a global focus. Global issues are an area of study that transcends traditional divisions in college programs.

**Communications:**

Three courses (nine semester credits)

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

***Note:*** *Grade of "C" or better is an IAI requirement for RHT 101◊ and RHT 102◊.*

**Social and Behavioral Sciences:**

Three courses (nine semester credits)

Students can choose three courses from the approved Social and Behavioral Science course list approved for this degree. Students may not choose more than two courses from any one discipline.

| | | |
|---|---|---|
| ANT 103 ◊ | Cultural Anthropology | 3 |
| GEO 104 ◊ | Contemporary World Cultures | 3 |
| GEO 105 ◊ | Economic Geography | 3 |
| GEO 106 ◊ | Regional Geography of Africa and Asia | 3 |
| HIS 142 ◊ | World History II | 3 |
| HIS 156 ◊ | African History | 3 |
| HIS 192 ◊ | History of Asia and the Pacific II | 3 |
| PSC 184 ◊ | Global Politics | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |

*HIS 192◊: Not offered every semester.*

**Humanities and Fine Arts:**

Three courses (nine semester credits)

The following three courses are required:

| | | |
|---|---|---|
| HUM 104 ◊ | Humanities Through the Arts | 3 |
| HUM 165 ◊ | Introduction to the Latin American Experience | 3 |
| PHL 105 ◊ | World Religions | 3 |

**Mathematics:**

One course (three semester credits)

Students may choose from any of the Mathematics courses (p. 55).

**Physical and Life Sciences:**

Two courses (eight semester credits)

One physical science course and one life science course taken from the Physical and Life Sciences listing (p. 55).

**Foreign Languages:**

Three courses in a foreign language sequence (12 semester credits)

The degree requires three semesters of foreign language from one foreign language sequence (e.g., CHN 101◊, CHN 102◊, CHN 103◊, ITL 101◊, ITL 102◊, ITL 103◊, or SPN 101◊, SPN 102◊, SPN 103◊)

**Business:**

Three course (nine semester credits)

Students are required to take the following courses:

| | | |
|---|---|---|
| BUS 127 ◊ | Principles of Marketing | 3 |
| BUS 141 ◊ | Introduction to Business | 3 |
| BUS 293 ◊# | Global Business | 3 |

**Electives:**

(five semester credits)

Students can choose two additional three semester hour courses from the Social and Behavioral Sciences list above, or one Social Science course and any one of the following business courses:

| | | |
|---|---|---|
| BUS 150 ◊ | Principles of Management | 3 |
| BUS 161 ◊ | Business Law I | 3 |
| BUS 212 ◊# | Principles of Finance | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Global Studies courses or other electives for AA degree**

**Subtotal: 23-27**

*See BUS course descriptions* (p. 191)*; GEO course descriptions* (p. 228)*, and HIS course descriptions* (p. 234)*.*

**Chairperson:** Bill Decker, Ext. 3509

# History, Associate of Arts

**Curriculum SOC.HIS.AA (U224A46)**

Courses in History cover a variety of American and international topics. Designed at the freshman and sophomore levels, these courses provide a broad foundation on which a student may specialize. Beyond general education requirements and personal interests, students should select courses that meet requirements at the transfer institution of choice.

**Recommended courses:**

| | | |
|---|---|---|
| HIS 121 ◊ | History of Western Civilization I | 3 |
| HIS 122 ◊ | History of Western Civilization II | 3 |
| HIS 141 ◊ | World History I | 3 |
| HIS 142 ◊ | World History II | 3 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| HIS 155 ◊ | History of the Afro-American in the United States | 3 |
| HIS 156 ◊ | African History | 3 |
| HIS 171 ◊ | History of Latin America I | 3 |
| HIS 172 ◊ | History of Latin America II | 3 |
| HIS 191 ◊ | History of Asia and the Pacific I | 3 |
| HIS 192 ◊ | History of Asia and the Pacific II | 3 |
| HIS 210 ◊# | U.S. Civil War and Reconstruction | 3 |
| HIS 296 ◊ | Special Topics in History | 1 - 4 |

*HIS 155◊, HIS 156◊, HIS 191◊, HIS 192◊: Not offered every semester.*

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**History courses or other electives for AA degree**

**Subtotal: 23-27**

*See HIS course descriptions* (p. 234)*.*

Recommended electives include other courses in the Social Sciences, Behavioral Sciences, Humanities, Literature, Foreign Language, Economics and the Arts.

**Chairperson:** Bill Decker, Ext. 3509

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General Education electives must be selected from the AA Degree Requirements (p. 55) *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AA Degree Requirements* (p. 55) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

# Intercultural Studies, Associate in Arts

**Curriculum SOC.INT.AA (U224A05)**

Triton's students represent a great variety of ethnic backgrounds. This mix reflects the national population and the interests, concerns and needs of such a population reflect, in turn, those of the nation in our increasing involvements with the international community.

Courses in Intercultural Studies are designed to promote the understanding of such issues as they relate both to our own communities and to international interests.

**Recommended courses:**

| | | |
|---|---|---|
| ART 210 ◊ | Afro-American Art | 3 |
| GEO 104 ◊ | Contemporary World Cultures | 3 |
| HIS 141 ◊ | World History I | 3 |
| HIS 142 ◊ | World History II | 3 |
| HIS 155 ◊ | History of the Afro-American in the United States | 3 |
| HIS 156 ◊ | African History | 3 |
| HIS 192 ◊ | History of Asia and the Pacific II | 3 |
| HUM 165 ◊ | Introduction to the Latin American Experience | 3 |
| PHL 104 ◊ | Social and Political Philosophy | 3 |
| PHL 105 ◊ | World Religions | 3 |
| PSC 184 ◊ | Global Politics | 3 |
| PSY 210 ◊# | Theories of Personality | 3 |
| SOC 131 ◊ | Social Problems | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Intercultural Studies courses or other electives for AA degree**

**Subtotal: 23-27**

Recommended electives include courses in the Sciences, Mathematics and Computer Science, Economics, Political Science, Foreign Language and Literature.

**Chairperson:** Bill Decker, Ext. 3509

# Mass Communication–Multimedia, Associate in Arts

**Curriculum VPA.MCM.AA (U224A09)**

Mass Communication-Multimedia includes careers in multimedia, journalism, film, public relations, television, radio, web design, animation and advertising. The Mass Communication–Multimedia degree uses digital computer-based tools for designing graphics, creating websites and animations, and incorporating sound with still and moving images. Students may choose elective courses to specialize in specific areas of Mass Communication. Four-year schools differ in their requirements. Students are advised to select courses that will transfer to the four-year school of their choice.

**Semester One:**

| | | |
|---|---|---|
| ART 119 ◊ | Two-Dimensional Design | 3 |
| | OR | |
| VIC 100 ◊ | Graphic Design | 3 |
| MCM 120 ◊# | Mass Communication | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Humanities | 3 |
| | General education/Mathematics | 3 |

**Subtotal: 15**

**Semester Two:**

| | | |
|---|---|---|
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| VIC 172 ◊# | Web Page Design | 3 |
| | General education/Physical and Life Science | 4 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 16**

**Semester Three:**

| | | |
|---|---|---|
| MCM 160 ◊# | Reporting and Writing for Multimedia | 3 |
| VIC 285 ◊ | Digital Video | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Life Science | 4 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 16**

**Semester Four:**

| | | |
|---|---|---|
| MCM 150 ◊ | Film History and Appreciation | 3 |
| VIC 272 ◊# | Advanced Web Page Design | 3 |
| | OR | |
| VIC 273 ◊ | Flash Animation | 3 |
| VIC 286 ◊# | Advanced Digital Video | 3 |
| | OR | |
| VIC 288 ◊ | Video Editing | 4 |

| | | |
|---|---|---|
| | General education/Social and Behavioral Science | 3 |
| | Electives | 5 |

**Subtotal: 17-18**

*MCM 150◊: Meets the Fine Arts general education requirement*

**Recommended electives:**

| | | |
|---|---|---|
| ART 117 ◊ | Drawing I | 3 |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| MCM 125 ◊# | Broadcasting History | 3 |
| MCM 130 ◊ | Radio Production | 3 |
| MCM 200 ◊# | News Editing | 3 |
| MCM 205 ◊# | Basic Broadcast Announcing | 3 |
| MCM 296 ◊# | Special Topics in Mass Communication and Journalism | 1-4 |
| PSC 184 ◊ | Global Politics | 3 |
| VIC 121 ◊ | Introduction to Adobe InDesign | 3 |
| VIC 161 ◊ | Introduction to Photoshop | 3 |
| VIC 162 ◊ | Digital Photography | 3 |
| VIC 270 ◊# | Writing for Multimedia | 3 |
| VIC 272 ◊# | Advanced Web Page Design | 3 |
| VIC 286 ◊# | Advanced Digital Video | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Mass Communication-Multimedia courses or other electives for AA degree**

**Subtotal: 23-27**

*See MCM course descriptions* (p. 244).

Beyond designated requirements, select courses required by transfer institutions. In addition, selection should be based on specific career goals. For teaching, see Education section (p. 59).

**Chairperson:** Dennis McNamara, Ext. 3597

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General Education electives must be selected from the AA Degree Requirements (p. 55) *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AA Degree Requirements* (p. 55) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

# Music, Associate in Arts

**Curriculum VPA.MUS.AA (U224A51)**

Series of courses designed to offer all of the required freshman- and sophomore-level music course work for students planning to pursue a Bachelor of Music or Bachelor of Music Education degree at senior institutions.

All incoming music students are strongly recommended to take a Music theory proficiency test administered by the ETRC, in Room M-142 and evaluated by the Music faculty. This examination will determine placement in Music courses. All students are encouraged to participate in large ensembles.

**Semester One:**

| | | |
|---|---|---|
| MUS 105 ◊# | Theory of Music I | 3 |
| MUS 115 ◊# | Sight-Singing and Ear Training I | 1 |
| MUS 135 ◊# | Keyboard Musicianship I | 1 |

**Applied Music—Major area chosen from:**

| | | |
|---|---|---|
| MUS 180 ◊ | Applied Music - Piano | 1 |
| | OR | |
| MUS 181 ◊ | Applied Music - Voice | 1 |
| | OR | |
| MUS 179 ◊ | Applied Music - Instrumental | 1 |
| MUS 180 ◊ | Applied Music - Piano | 1 |

**Music Ensemble: (1 semester credit)**

Chosen from

| | | |
|---|---|---|
| MUS 250 ◊ | Concert Band | 1 |
| MUS 253 ◊# | Ensemble | 1 |
| MUS 262 ◊ | Choral Ensemble | 1 |
| MUS 266 ◊ | Jazz Band | 1 |

**Semester Two:**

| | | |
|---|---|---|
| MUS 106 ◊# | Theory of Music II | 3 |
| MUS 116 ◊# | Sight-Singing & Ear Training II | 1 |

**Applied Music—Major area chosen from:**

| | | |
|---|---|---|
| MUS 179 ◊ | Applied Music - Instrumental | 1 |
| | OR | |
| MUS 180 ◊ | Applied Music - Piano | 1 |
| | OR | |
| MUS 181 ◊ | Applied Music - Voice | 1 |
| MUS 180 ◊ | Applied Music - Piano | 1 |

**Music Ensemble: (1 semester credit)**

Chosen from

| | | |
|---|---|---|
| MUS 250 ◊ | Concert Band | 1 |
| MUS 253 ◊# | Ensemble | 1 |
| MUS 262 ◊ | Choral Ensemble | 1 |
| MUS 266 ◊ | Jazz Band | 1 |

**Semester Three:**

| | | |
|---|---|---|
| MUS 207 ◊# | Theory of Music III | 3 |
| MUS 217 ◊# | Sight Singing and Ear Training III | 1 |

**Applied Music—Major area chosen from:**

| | | |
|---|---|---|
| MUS 179 ◊ | Applied Music - Instrumental | 1 |
| | OR | |
| MUS 180 ◊ | Applied Music - Piano | 1 |
| | OR | |
| MUS 181 ◊ | Applied Music - Voice | 1 |
| MUS 215 ◊# | Introduction to Music History | 3 |

**Music Ensemble: (1 semester credit)**

Chosen from

| | | |
|---|---|---|
| MUS 250 ◊ | Concert Band | 1 |
| MUS 253 ◊# | Ensemble | 1 |
| MUS 262 ◊ | Choral Ensemble | 1 |
| MUS 266 ◊ | Jazz Band | 1 |

**Semester Four:**

| | | |
|---|---|---|
| MUS 208 ◊# | Theory of Music IV | 3 |
| MUS 218 ◊# | Sight-Singing & Ear Training IV | 1 |

**Applied Music—Major area chosen from:**

| | | |
|---|---|---|
| MUS 179 ◊ | Applied Music - Instrumental | 1 |
| | OR | |
| MUS 180 ◊ | Applied Music - Piano | 1 |
| | OR | |
| MUS 181 ◊ | Applied Music - Voice | 1 |

**Music Ensemble: (1 semester credit)**

Chosen from

| | | |
|---|---|---|
| MUS 250 ◊ | Concert Band | 1 |
| MUS 253 ◊# | Ensemble | 1 |
| MUS 262 ◊ | Choral Ensemble | 1 |
| MUS 266 ◊ | Jazz Band | 1 |

**Recommended electives:**

| | | |
|---|---|---|
| MUS 110 ◊ | Listening to Music | 3 |
| MUS 179 ◊ | Applied Music - Instrumental | 1 |
| MUS 180 ◊ | Applied Music - Piano | 1 |
| MUS 181 ◊ | Applied Music - Voice | 1 |
| MUS 200 ◊# | Improvisation I | 2 |
| MUS 201 ◊# | Improvisation II | 2 |
| MUS 216 ◊ | Music in America | 3 |

*MUS 179◊: includes: organ, violin, viola, cello, string bass, flute, clarinet, oboe, bassoon, trumpet, French horn, trombone, baritone, tuba, percussion, saxophone and guitar*

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Music courses or other electives for AA degree**

**Subtotal: 23-27**

**Notes:**

- MUS 105◊, MUS 115◊ and MUS 135◊ should be taken concurrently. It is recommended that students without a keyboard background should enroll in MUS 135◊ in the first semester.
- Students who elect MUS 180◊, Applied Music-Piano, as their major applied area, can satisfy their remaining applied Music requirement with any other applied Music area.
- It is recommended that MUS 215◊, Introduction to Music History, be taken during the third or fourth semester.

*See MUS course descriptions* (p. 245).

Students are encouraged to participate in the Triton Jazz Band and the Triton Concert Band.

**Chairperson:** Dennis McNamara, Ext. 3597

## Music Technology, Associate in Arts

**Curriculum VPA.MUT.AA (U224A52)**

Curriculum offers students an opportunity to acquire specific skills in the diverse field of Music Technology. Curriculum provides a basic foundation in music theory, as well as computer music skills. Interested students should pursue a baccalaureate degree in Music Technology. Four-year schools differ in their requirements. Students are advised to select courses that will transfer to the four-year institution of their choice.

**Semester One:**

| | | |
|---|---|---|
| MUS 101 ◊ | Electronic Music Production | 3 |
| MUS 105 ◊# | Theory of Music I | 3 |
| MUS 115 ◊# | Sight-Singing and Ear Training I | 1 |
| MUS 135 ◊# | Keyboard Musicianship I | 1 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 14**

**Semester Two:**

| | | |
|---|---|---|
| MUS 106 ◊# | Theory of Music II | 3 |
| MUS 116 ◊# | Sight-Singing & Ear Training II | 1 |
| MUS 120 ◊ | Record Production I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Mathematics | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 16**

**Semester Three:**

| | | |
|---|---|---|
| MUS 207 ◊# | Theory of Music III | 3 |
| MUS 215 ◊# | Introduction to Music History | 3 |
| MUS 217 ◊# | Sight Singing and Ear Training III | 1 |
| MUS 220 ◊# | Record Production II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Physical and Life Science | 4 |

**Subtotal: 17**

**Semester Four:**

| | | |
|---|---|---|
| MUS 208 ◊# | Theory of Music IV | 3 |
| MUS 218 ◊# | Sight-Singing & Ear Training IV | 1 |
| | General education/Humanities and Fine Arts | 6 |
| | General education/Physical and Life Science | 4 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 17**

**Suggested Additional Course Work:**

| | | |
|---|---|---|
| MUS 235 ◊# | Keyboard Musicianship II | 1 |

**Applied Music—Major area chosen from:**

| | | |
|---|---|---|
| MUS 179 ◊ | Applied Music - Instrumental | 1 |
| | OR | |
| MUS 180 ◊ | Applied Music - Piano | 1 |
| | OR | |
| MUS 181 ◊ | Applied Music - Voice | 1 |

**Music Ensemble:**

| | | |
|---|---|---|
| MUS 250 ◊ | Concert Band | 1 |
| | OR | |
| MUS 253 ◊# | Ensemble | 1 |
| | OR | |
| MUS 262 ◊ | Choral Ensemble | 1 |
| | OR | |
| MUS 266 ◊ | Jazz Band | 1 |
| | | |
| MUS 211 ◊# | Arranging & Composition | 2 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Music courses or other electives for AA degree**

**Subtotal: 23-27**

*See MUS course descriptions* (p. 245).

**Chairperson:** Dennis McNamara, Ext. 3597

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General Education electives must be selected from the AA Degree Requirements (p. 55) *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AA Degree Requirements* (p. 55) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

# Philosophy and Logic, Associate in Arts

**Curriculum BES.PHL.AA (U224A38)**

Philosophy is the study of the very possibility of our knowledge. It provides the intellectual tools to approach specific questions in the humanities, the sciences and religion and it explores what it means to be human at a very basic level, asking questions such as "who am I?" "How can I be sure of my knowledge of the world?" "What is the right thing to do?" At Triton College students in the Philosophy and Logic program have the chance to become familiar with all major branches of the discipline of Philosophy, while satisfying most if not all the general education requirements to transfer to a four year institution. Students who are interested in pursuing an academic career in Philosophy will be mentored by the program's instructors and students who wish to prepare well for any Bachelor major will develop the necessary intellectual skills for a successful transfer.

**Semester One:**

| | | |
|---|---|---|
| PHL 101 ◊ | Introduction to Philosophy | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Humanities | 3 |
| | General education/Physical and Life Science | 3 |

**Subtotal: 15**

**Semester Two:**

| | | |
|---|---|---|
| ANT 103 ◊ | Cultural Anthropology | 3 |
| PHL 105 ◊ | World Religions | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities | 3 |

**Subtotal: 15**

**Semester Three:**

| | | |
|---|---|---|
| PHL 103 ◊ | Ethics | 3 |
| PHL 102 ◊ | Logic | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| | General education/Mathematics | 3 |
| | General education/Physical and Life Science | 4 |

**Subtotal: 16**

**Semester Four:**

| | | |
|---|---|---|
| | General education/Behavioral Sciences | 9 |
| | General education/Fine Arts | 3 |
| | Program electives | 3 |
| | Electives | 3 |

**Subtotal: 18**

**Recommended Philosophy Electives (3 semester credits):**

| | | |
|---|---|---|
| PHL 104 ◊ | Social and Political Philosophy | 3 |
| PHL 106 ◊ | Biomedical Ethics | 3 |
| PHL 113 ◊ | Environmental Ethics | 3 |
| PHL 296 ◊ | Special Topics in Philosophy | 1 - 3 |

**Recommended Program Electives (3 semester credits):**

| | | |
|---|---|---|
| ANT 150 ◊ | Cultural Contexts | 3 |
| ANT 275 ◊ | Anthropology of Religion | 3 |
| ART 111 ◊ | Ancient to Medieval Art | 3 |
| ART 112 ◊ | Renaissance to Modern Art | 3 |
| ENG 105 ◊# | World Literature | 3 |
| HUM 151 ◊ | Great Books of the West I | 3 |
| HUM 152 ◊ | Great Books of the West II | 3 |
| HUM 170 ◊# | Introduction to Women's and Gender Studies | 3 |
| PSC 120 ◊ | Principles of Political Science | 3 |
| PSC 184 ◊ | Global Politics | 3 |
| PSY 201 ◊# | Introduction to Social Psychology | 3 |
| PSY 210 ◊# | Theories of Personality | 3 |
| PSY 250 ◊# | Psychology of Gender | 3 |
| SOC 131 ◊ | Social Problems | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Philosophy courses or other electives for AA degree**

**Subtotal: 23-27**

*See PHL course descriptions* (p. 261).

Recommended electives include courses in the Social and Behavioral Sciences, Humanities, Mathematics, Foreign Languages and Fine Arts.

**Chairperson:** Victor McCullum, Ext. 3311

# Psychology, Associate in Arts

**Curriculum BES.PSY.AA (U224A42)**

Students planning to major in Psychology when they transfer to a four-year school should use the following as a guide.

**Required Course:**

| | | |
|---|---|---|
| PSY 100 ◊ | Introduction to Psychology | 3 |

**Recommended Electives for Psychology Majors:**

(a maximum of nine semester credits selected from the courses listed below):

| | | |
|---|---|---|
| PSY 201 ◊# | Introduction to Social Psychology | 3 |
| PSY 205 ◊# | Positive Psychology | 3 |
| PSY 207 ◊# | Health Psychology | 3 |
| PSY 210 ◊# | Theories of Personality | 3 |
| PSY 238 ◊# | Abnormal Psychology | 3 |
| PSY 245 ◊# | Industrial Psychology | 3 |
| PSY 250 ◊# | Psychology of Gender | 3 |

**(Only one of the developmental psychology courses listed below may be used in meeting the nine credit hours of recommended electives for psychology majors):**

| | | |
|---|---|---|
| PSY 216 ◊# | Child Psychology | 3 |
| PSY 222 ◊# | Adolescent Psychology | 3 |
| PSY 228 ◊# | Psychology of Adulthood & Aging | 3 |
| PSY 234 ◊# | Abnormal Child & Adolescence Psychology | 3 |

**Electives for Non-Psychology Majors:**

| | | |
|---|---|---|
| PSY 105 ◊ | Personal Applications of Psychology | 3 |
| PSY 296 ◊ | Special Topics in Psychology | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Psychology courses or other electives for AA degree**

**Subtotal: 23-27**

*See PSY course descriptions* (p. 263).

**Chairperson:** Victor McCullum, Ext. 3311

# Social and Political Science, Associate in Arts

**Curriculum SOC.PSC.AA (U224A45)**

These courses offer a study of contemporary political and economic issues. Social Science courses provide an historical perspective. Political Science courses examine the nature of the state both nationally and internationally.

**Recommended courses:**

| | | |
|---|---|---|
| PSC 150 ◊ | American National Politics | 3 |
| PSC 151 ◊ | American State and Urban Politics | 3 |
| PSC 184 ◊ | Global Politics | 3 |
| PSC 296 ◊ | Special Topics in Political Science | 1 - 4 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Social/Political Science courses or other electives for AA degree**

**Subtotal: 23-27**

*See PSC course descriptions* (p. 263)*; SSC course descriptions* (p. 275).

Recommended electives include courses in History, Economics, Anthropology, Foreign Languages, Education, Literature, Sociology and Geography.

**Chairperson:** Bill Decker, Ext. 3509

# Sociology/Social Work, Associate in Arts

**Curriculum BES.SWK.AA (U224A44)**

Triton provides students the opportunity to develop a comprehensive understanding of the discipline of Sociology and the applied field of Social Work. A student planning to transfer to a four-year school and major in Sociology or Social Work can meet most, if not all, of the general education requirements and some of the major requirements for those two areas. The specific major field courses completed will be determined by whether the student plans to major in Sociology or Social Work.

**Sociology**

**Semester One:**

| | | |
|---|---|---|
| SOC 100 ◊ | Introduction to Sociology | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Physical Science | 3 |
| | General education/Social and Behavioral Science | 3 |
| | **Subtotal:** | **15** |

**Semester Two:**

| | | |
|---|---|---|
| ANT 101 ◊ | Introduction to Anthropology | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Sociology | 3 |
| | Electives | 3 |
| | **Subtotal:** | **18** |

**Semester Three:**

| | | |
|---|---|---|
| | Sociology electives | 6 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Mathematics | 3 |
| | General education/Life Sciences | 3 |
| | **Subtotal:** | **15** |

**Semester Four:**

| | | |
|---|---|---|
| | Sociology electives | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | Electives | 10 |
| | **Subtotal:** | **16** |

*Electives: It is recommended that students select the remaining courses from their major area of study with a counselor.*

**Recommended Sociology Electives (12 semester credits)**

| | | |
|---|---|---|
| SOC 120 ◊# | Social Patterns of Courtship & Marriage | 3 |
| SOC 131 ◊ | Social Problems | 3 |
| SOC 175 ◊ | Introduction to Social Work | 3 |
| SOC 180 ◊ | Human Sexuality | 3 |
| SOC 201 ◊# | Sociology of Death and Dying | 3 |
| SOC 210 ◊# | Sociology of Leadership | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |

**Social Work**

**Recommended Electives for Social Work (3 to 9 semester credits):**

| | | |
|---|---|---|
| SOC 131 ◊ | Social Problems | 3 |
| SOC 175 ◊ | Introduction to Social Work | 3 |
| SOC 180 ◊ | Human Sexuality | 3 |

**Recommended Behavioral Science Electives (3 to 9 semester credits):**

| | | |
|---|---|---|
| PSY 201 ◊# | Introduction to Social Psychology | 3 |
| PSY 234 ◊# | Abnormal Child & Adolescence Psychology | 3 |
| PSY 238 ◊# | Abnormal Psychology | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Sociology/Social Work courses or other electives for AA degree**

**Subtotal: 23-27**

*See SOC course descriptions* (p. 270)*; PSY course descriptions* (p. 263).

**Chairperson:** Victor McCullum, Ext. 3311

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General Education electives must be selected from the AA Degree Requirements (p. 55) *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AA Degree Requirements* (p. 55) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

# Speech Communication, Associate in Arts

**Curriculum VPA.SPE.AA (U224A23)**

As a field of study, Speech Communication is highly versatile, in that it teaches students about crucial issues of human relationships, particularly as revealed through communication issues. The sequence of courses recommended below will prepare students to enter a wide array of fields, including but not limited to advertising, marketing, business, education, law, politics, public service, public relations and human resource management. Speech Communication courses provide an important foundation for students to develop not only professional, work-related skills, but also personal skills that will enhance their overall quality of life and relationships.

**Semester One:**

| | | |
|---|---|---|
| PSY 100 ◊ | Introduction to Psychology | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| SPE 111 ◊ | Interpersonal Communication | 3 |
| | General education/Mathematics | 3 |
| | Electives | 2 |
| | **Subtotal: 17** | |

**Semester Two:**

| | | |
|---|---|---|
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| | OR | |
| PSC 150 ◊ | American National Politics | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 113 ◊# | Small Group Communication | 3 |
| | OR | |
| SPE 141 ◊ | Introduction to Performance Studies | 3 |
| | General education/Humanities | 3 |
| | General education/Physical Science | 4 |
| | **Subtotal: 16** | |

**Semester Three:**

| | | |
|---|---|---|
| SPE 113 ◊# | Small Group Communication | 3 |
| | OR | |
| SPE 121 ◊# | Argumentation | 3 |
| | General education/Fine Arts | 3 |
| | General education/Life Science | 4 |
| | General education/Social and Behavioral Science | 3 |
| | Electives | 2 |
| | **Subtotal: 15** | |

**Semester Four:**

| | | |
|---|---|---|
| MCM 120 ◊# | Mass Communication | 3 |
| SPE 112 ◊ | Intercultural Communication | 3 |
| | OR | |
| SPE 294 ◊# | Gender and Communication | 3 |
| | General education/Fine Arts | 3 |
| | Electives | 7 |
| | **Subtotal: 16** | |

*MCM 120 ◊: recommended elective*

**Recommended electives:**

| | | |
|---|---|---|
| AHL 102 ◊ | Ethics and Law for Allied Health Professionals | 1 |
| ANT 103 ◊ | Cultural Anthropology | 3 |
| ANT 150 ◊ | Cultural Contexts | 3 |
| BUS 127 ◊ | Principles of Marketing | 3 |
| BUS 150 ◊ | Principles of Management | 3 |
| CJA 161 ◊ | Administration of Justice | 3 |
| ECO 102 ◊ | Macroeconomics | 3 |
| GEO 104 ◊ | Contemporary World Cultures | 3 |
| GEO 105 ◊ | Economic Geography | 3 |
| HIS 121 ◊ | History of Western Civilization I | 3 |
| HIS 141 ◊ | World History I | 3 |
| HUM 124 ◊ | Professional Ethics | 1 |
| MCM 205 ◊# | Basic Broadcast Announcing | 3 |
| PHL 101 ◊ | Introduction to Philosophy | 3 |
| PHL 102 ◊ | Logic | 3 |
| PHL 104 ◊ | Social and Political Philosophy | 3 |
| PHL 105 ◊ | World Religions | 3 |
| PSC 151 ◊ | American State and Urban Politics | 3 |
| PSY 201 ◊# | Introduction to Social Psychology | 3 |
| PSY 210 ◊# | Theories of Personality | 3 |
| SOC 131 ◊ | Social Problems | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |
| SPE 130 ◊ | Introduction to Theatre | 3 |
| SPE 296 ◊ | Special Topics in Speech and Theatre | 1 - 4 |
| SSC 190 ◊ | Contemporary Society | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Speech Communication courses or other electives for AA degree**

**Subtotal: 23-27**

*See SPE course descriptions* (p. 271).

**Chairperson:** Dennis McNamara, Ext. 3597

# Speech/Theatre, Associate in Arts

**Curriculum VPA.THE.AA (U224A22)**

The Speech/Theatre curriculum outlined here, is well-suited for students interested in theatre as an artistic form of human communication. Students will explore aesthetic and practical aspects of the theatre process. These courses are especially appropriate for students who are interested in pursuing careers in such aspects of theatre as acting, directing, producing, stagecraft, scenic design, stage management and education.

**Semester One:**

| | | |
|---|---|---|
| PSY 100 ◊ | Introduction to Psychology | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| SPE 130 ◊ | Introduction to Theatre | 3 |
| | OR | |
| SPE 135 ◊# | Stagecraft | 3 |
| SPE 161 ◊ | Acting I | 3 |
| | General education and/or electives | 2 |
| | **Subtotal: 17** | |

**Semester Two:**

| | | |
|---|---|---|
| ENG 102 ◊# | Introduction to Drama | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 130 ◊ | Introduction to Theatre | 3 |
| | OR | |
| SPE 135 ◊# | Stagecraft | 3 |
| SPE 162 ◊# | Acting II | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Mathematics | 3 |
| | **Subtotal: 18** | |

*SPE 135◊: if not taken above*

*General education/Humanities and Fine Arts: Recommended electives (ART 111◊ or ART 112◊)*

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General Education electives must be selected from the AA Degree Requirements (p. 55) *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AA Degree Requirements* (p. 55) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

**Semester Three:**

| | | |
|---|---|---|
| SPE 113 ◊# | Small Group Communication | 3 |
| SPE 141 ◊ | Introduction to Performance Studies | 3 |
| | General education/Physical Science | 4 |
| | Electives | 3 |
| | **Subtotal: 13** | |

**Semester Four:**

| | | |
|---|---|---|
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| PSC 150 ◊ | American National Politics | 3 |
| | General education/Life Science | 4 |
| | General education/Social and Behavioral Science | 3 |
| | Electives | 6 |
| | **Subtotal: 16** | |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Speech/Theatre courses or other electives for AA degree**

**Subtotal: 23-27**

*See SPE course descriptions* (p. 271).

Recommended electives include: Drawing (ART 117◊), Music (MUS 181◊, Applied Voice), Dance (DAN 110◊), Literature (ENG 101◊, ENG 103◊, ENG 105◊), Speech/Theatre (SPE 296◊) History, Psychology and Sociology.

**Chairperson:** Dennis McNamara, Ext. 3597

# Women's and Gender Studies, Associate in Arts

**Curriculum SOC.WGS.AA (U224A15)**

The formation of women's identity and the construction of gender, past and present, are integral to the courses in this program. This interdisciplinary curriculum includes exciting coursework that explores human experience and identity through the lens of gender. Students investigate and analyze how society, economics, history and culture impact the construction of gender.

Students who enroll in Women's and Gender Studies will be well-prepared to transfer into a four-year degree program that offers a major or minor in women's and/or gender studies. Many courses in the Women's and Gender Studies program also fulfill general education requirements that will easily transfer to four-year colleges and universities, even if a student wishes to major in another area. Appropriate for those planning to study a variety of disciplines, including, but not limited to business, communications, humanities, health

and human services. Exploration of the women's and gender-focused topics in this curriculum also will be useful for those already in professional settings, as it will broaden understanding of current cultural expectations of women and men and support sensitivity to gender issues in the workplace.

The following courses, when designated as women's and gender studies sections, are recommended to complete the General Education Core requirements and/or fulfill elective requirements. There also will be special topics courses in Women's and Gender Studies offered in various disciplines that are appropriate to this curriculum.

**General Education Core:**

12 to 13 courses (37-41 semester credits)

**Communications:**

Three courses (nine semester credits)

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

***Note: Grade of "C" or better is an IAI requirement for RHT 101◊ and RHT 102◊.***

**Social and Behavioral Sciences:**

Three courses (nine semester credits) with courses selected from at least two disciplines.

| | | |
|---|---|---|
| ANT 101 ◊ | Introduction to Anthropology | 3 |
| ANT 103 ◊ | Cultural Anthropology | 3 |
| ANT 150 ◊ | Cultural Contexts | 3 |
| GEO 104 ◊ | Contemporary World Cultures | 3 |
| GEO 105 ◊ | Economic Geography | 3 |
| GEO 106 ◊ | Regional Geography of Africa and Asia | 3 |
| HIS 141 ◊ | World History I | 3 |
| HIS 142 ◊ | World History II | 3 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| HIS 156 ◊ | African History | 3 |
| PSY 201 ◊# | Introduction to Social Psychology | 3 |
| PSY 216 ◊# | Child Psychology | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| SOC 120 ◊# | Social Patterns of Courtship & Marriage | 3 |
| SOC 131 ◊ | Social Problems | 3 |

**Humanities and Fine Arts:**

Three courses (nine semester credits) with at least one course selected from Humanities and at least one course from the Fine Arts.

**Fine Arts**

| | | |
|---|---|---|
| ART 111 ◊ | Ancient to Medieval Art | 3 |
| ART 112 ◊ | Renaissance to Modern Art | 3 |
| MCM 150 ◊ | Film History and Appreciation | 3 |
| MUS 110 ◊ | Listening to Music | 3 |
| SPE 130 ◊ | Introduction to Theatre | 3 |

**Humanities**

| | | |
|---|---|---|
| ENG 101 ◊# | Introduction to Poetry | 3 |
| ENG 102 ◊# | Introduction to Drama | 3 |
| ENG 103 ◊# | Introduction to Fiction | 3 |
| HUM 151 ◊ | Great Books of the West I | 3 |
| HUM 152 ◊ | Great Books of the West II | 3 |
| HUM 165 ◊ | Introduction to the Latin American Experience | 3 |
| PHL 101 ◊ | Introduction to Philosophy | 3 |
| PHL 103 ◊ | Ethics | 3 |

**Mathematics:**

One course (three semester credits)

**Physical and Life Sciences:**

Two courses (seven to eight semester credits), with one course selected from the Life Sciences and one course from the Physical Sciences, including at least one laboratory course.

**Life Science**

| | | |
|---|---|---|
| BIS 102 ◊ | Human Heredity and Society | 4 |
| BIS 105 ◊ | Environmental Biology | 4 |

**Physical Science:**

One course (four to five credits)

**Recommended Electives:**

| | | |
|---|---|---|
| ART 110 ◊ | Looking at Art | 3 |
| CSG 150 ◊ | Career and Life Planning | 1 |
| ENG 170 ◊# | Introduction to Children's Literature | 3 |
| HUM 170 ◊# | Introduction to Women's and Gender Studies | 3 |
| PSY 250 ◊# | Psychology of Gender | 3 |
| SPE 141 ◊ | Introduction to Performance Studies | 3 |
| SPE 294 ◊# | Gender and Communication | 3 |

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AA degree (p. 55)

**Subtotal: 37-41**

**Women's and Gender Studies designated courses or other electives for AA degree**

**Subtotal: 23-27**

**Chairperson:** Bill Decker, Ext. 3509

# Associate in Fine Arts

## Associate in Fine Arts Degree Requirements

The Associate in Fine Arts in Music or Art provides the first two years of post-secondary study in either Music or Art. Accordingly, the student can expect to engage in a variety of courses that will require the student to practice skills necessary for proficiency. The Associate of Fine Arts degree enables the student to achieve competence and understanding necessary for success at the university level.

## Art, Associate in Fine Arts

**Curriculum VPA.ART.AFA (U250M50)**

**(62 semester hours required)**

**Semester One**

| | | |
|---|---|---|
| ART 111 ◊ | Ancient to Medieval Art | 3 |
| ART 117 ◊ | Drawing I | 3 |
| ART 119 ◊ | Two-Dimensional Design | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Mathematics | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| ART 112 ◊ | Renaissance to Modern Art | 3 |
| ART 118 ◊# | Drawing II | 3 |
| ART 120 ◊# | Three-Dimensional Design | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| PSC 150 ◊ | American National Politics | 3 |
| | OR | |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| | **Subtotal: 15** | |

**Semester Three**

| | | |
|---|---|---|
| ART 125 ◊# | Life Drawing I | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Life Science | 4 |
| | Art elective(s) | 3-6 |
| | **Subtotal: 16-19** | |

**Semester Four**

| | |
|---|---|
| General education/Humanities and Fine Arts | 3 |
| General education/Physical Science | 4 |
| General education/Social and Behavioral Science | 3 |
| Art elective(s) | 3-6 |
| **Subtotal: 13-16** | |

*General education/Humanities and Fine Arts, General education/Social and Behavioral Science: One Human Diversity course must be taken from either Social and Behavioral Science or Humanities/Fine Arts.*

Subtotal: 62

**Recommended Electives**

**Ceramics:**

| | | |
|---|---|---|
| ART 135 ◊# | Ceramics I | 3 |
| ART 136 ◊# | Ceramics II | 3 |

**Painting:**

| | | |
|---|---|---|
| ART 141 ◊# | Painting I | 3 |
| ART 142 ◊# | Painting II | 3 |

**Printmaking:**

| | | |
|---|---|---|
| ART 140 ◊# | Printmaking | 3 |

**Visual Communication:**

| | | |
|---|---|---|
| VIC 100 ◊ | Graphic Design | 3 |
| VIC 104 ◊ | Computer Art I | 3 |

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements: AFA degree**

**Subtotal: 32**

**Art courses or other electives for AFA degree**

**Subtotal: 30**

*See ART course descriptions* (p. 185).

**Chairperson:** Dennis McNamara, Ext. 3597

# Music, Associate in Fine Arts

**Curriculum VPA.MUS.AFA (U250M51)**

**(64 semester hours required)**

Series of courses designed to offer all of the required freshman- and sophomore-level music course work for students planning to pursue a Bachelor of Music or Bachelor of Music Education degree at senior institutions.

All incoming music students are strongly recommended to take a Music theory proficiency test administered by the ETRC, in Room M-142 and evaluated by the Music faculty. This examination will determine placement in Music courses. All students are encouraged to participate in large ensembles.

**Semester One**

| | | |
|---|---|---|
| MUS 105 ◊# | Theory of Music I | 3 |
| MUS 115 ◊# | Sight-Singing and Ear Training I | 1 |
| MUS 135 ◊# | Keyboard Musicianship I | 1 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| PSC 150 ◊ | American National Politics | 3 |
| | OR | |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| | General education/Mathematics | 3 |
| | Applied Music elective | 2 |
| | Ensemble elective | 1 |
| | **Subtotal: 17** | |

**Semester Two**

| | | |
|---|---|---|
| MUS 106 ◊# | Theory of Music II | 3 |
| MUS 116 ◊# | Sight-Singing & Ear Training II | 1 |
| MUS 235 ◊# | Keyboard Musicianship II | 1 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Life Science | 4 |
| | Applied Music elective | 2 |
| | Ensemble elective | 1 |
| | **Subtotal: 15** | |

**Semester Three**

| | | |
|---|---|---|
| MUS 180 ◊ | Applied Music - Piano | 1 |
| MUS 207 ◊# | Theory of Music III | 3 |
| MUS 215 ◊# | Introduction to Music History | 3 |
| MUS 217 ◊# | Sight Singing and Ear Training III | 1 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | Applied Music elective | 2 |
| | Ensemble elective | 1 |
| | **Subtotal: 17** | |

**Semester Four**

| | | |
|---|---|---|
| MUS 180 ◊ | Applied Music - Piano | 1 |
| MUS 208 ◊# | Theory of Music IV | 3 |
| MUS 218 ◊# | Sight-Singing & Ear Training IV | 1 |
| | General education/Physical Science | 4 |
| | General education/Social and Behavioral Science | 3 |
| | Applied Music elective | 2 |
| | Ensemble elective | 1 |
| | **Subtotal: 15** | |

**Ensemble electives: Choose from:**

| | | |
|---|---|---|
| MUS 250 ◊ | Concert Band | 1 |
| MUS 253 ◊# | Ensemble | 1 |
| MUS 262 ◊ | Choral Ensemble | 1 |
| MUS 266 ◊ | Jazz Band | 1 |

**Applied Music electives: Choose from below courses and repeat four semesters.**

| | | |
|---|---|---|
| MUS 179 ◊ | Applied Music - Instrumental | 1 |
| MUS 180 ◊ | Applied Music - Piano | 1 |
| MUS 181 ◊ | Applied Music - Voice | 1 |

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements: AFA degree**

**Subtotal: 32**

**Music courses or other electives for AFA degree**

**Subtotal: 35**

*See MUS course descriptions* (p. 245).

***NOTE:*** *All program requirement courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

**Chairperson:** Dennis McNamara, Ext. 3597

# Associate in Science

# Associate in Science Degree Requirements

**Curriculum ASD.AS.AS (U230A)**

**(60-64 semester hours required)**

For students who intend to pursue a Bachelor of Science degree at a four-year school.

Students must meet the prescribed general education requirements listed below for the Associate in Science degree and should complete the remaining required semester hours according to the requirements of the four-year school to which they plan to transfer. The "◊" symbol on courses means articulated courses (p. 44).

*NOTE: The following AS degree requirements, effective fall 2016, meet the Illinois Community College Board's recommended model including the IAI General Education Core curriculum.*

**General Education Core**

**Communications:**

Three courses (nine semester credits)

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

***Note: Grade of "C" or better is an IAI requirement for RHT 101◊ and RHT 102◊***

**Social and Behavioral Science:**

Two courses (six semester credits), with courses selected from at least two disciplines.

Graduation from an Illinois college or university requires satisfactory completion of one or more courses incorporating Human Diversity which may be taken as a Humanities and Fine Arts or Social and Behavioral Science course. These courses are ANT 101◊, ANT 103◊, ANT 150◊, GEO 104◊, GEO 105◊, GEO 106◊, HIS 141◊, HIS 142◊, HIS 156◊, HIS 171◊, HIS 172◊, HIS 191◊, HIS 192◊, and SOC 225◊.

| | | |
|---|---|---|
| ANT 101 ◊ | Introduction to Anthropology | 3 |
| ANT 102 ◊ | Introduction to Biological Anthropology | 3 |
| ANT 103 ◊ | Cultural Anthropology | 3 |
| ANT 105 ◊ | Digging Into Archaeology | 3 |
| ANT 150 ◊ | Cultural Contexts | 3 |
| ECO 100 ◊ | Principles of Economics | 3 |
| ECO 102 ◊ | Macroeconomics | 3 |
| ECO 103 ◊ | Microeconomics | 3 |
| GEO 104 ◊ | Contemporary World Cultures | 3 |
| GEO 105 ◊ | Economic Geography | 3 |
| GEO 106 ◊ | Regional Geography of Africa and Asia | 3 |
| HIS 121 ◊ | History of Western Civilization I | 3 |
| HIS 122 ◊ | History of Western Civilization II | 3 |
| HIS 141 ◊ | World History I | 3 |
| HIS 142 ◊ | World History II | 3 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| HIS 156 ◊ | African History | 3 |
| HIS 171 ◊ | History of Latin America I | 3 |
| HIS 172 ◊ | History of Latin America II | 3 |
| HIS 191 ◊ | History of Asia and the Pacific I | 3 |
| HIS 192 ◊ | History of Asia and the Pacific II | 3 |
| PSC 120 ◊ | Principles of Political Science | 3 |
| PSC 150 ◊ | American National Politics | 3 |
| PSC 151 ◊ | American State and Urban Politics | 3 |
| PSC 184 ◊ | Global Politics | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| PSY 201 ◊# | Introduction to Social Psychology | 3 |
| PSY 216 ◊# | Child Psychology | 3 |
| PSY 222 ◊# | Adolescent Psychology | 3 |
| PSY 228 ◊# | Psychology of Adulthood & Aging | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| SOC 120 ◊# | Social Patterns of Courtship & Marriage | 3 |
| SOC 131 ◊ | Social Problems | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |
| SSC 190 ◊ | Contemporary Society | 3 |

**Humanities and Fine Arts:**

Two courses (six semester credits), with at least one course selected from Humanities and at least one course from the Fine Arts. Graduation from an Illinois college or university requires satisfactory completion of one or more courses incorporating Human Diversity which may be taken as a Humanities and Fine Arts or Social and Behavioral Science course. These courses are HUM 165◊, HUM 170◊, PHL 105◊, and ART 114◊.

**Humanities**

| | | |
|---|---|---|
| ENG 101 ◊# | Introduction to Poetry | 3 |
| ENG 102 ◊# | Introduction to Drama | 3 |
| ENG 103 ◊# | Introduction to Fiction | 3 |
| ENG 105 ◊# | World Literature | 3 |
| ENG 113 ◊# | Classic American Authors Pre-Civil War | 3 |
| ENG 114 ◊# | Classic American Authors Civil War to the Present | 3 |
| ENG 170 ◊# | Introduction to Children's Literature | 3 |
| ENG 231 ◊# | Introduction to Shakespeare | 3 |
| HUM 104 ◊ | Humanities Through the Arts | 3 |
| HUM 151 ◊ | Great Books of the West I | 3 |
| HUM 152 ◊ | Great Books of the West II | 3 |
| HUM 165 ◊ | Introduction to the Latin American Experience | 3 |
| HUM 170 ◊# | Introduction to Women's and Gender Studies | 3 |
| IDS 101 ◊ | The Arts in Western Culture I | 3 |
| IDS 102 ◊ | The Arts in Western Culture II | 3 |

| | | |
|---|---|---|
| ITL 104 ◊# | Intermediate Italian II | 4 |
| PHL 101 ◊ | Introduction to Philosophy | 3 |
| PHL 102 ◊ | Logic | 3 |
| PHL 103 ◊ | Ethics | 3 |
| PHL 105 ◊ | World Religions | 3 |
| PHL 113 ◊ | Environmental Ethics | 3 |
| SPN 104 ◊# | Intermediate Spanish II | 4 |
| SPN 115 ◊# | Spanish for Heritage Speakers I | 4 |
| SPN 116 ◊# | Spanish for Heritage Speakers II | 4 |
| SPN 151 ◊# | Introduction to Spanish/American Literature I | 3 |
| SPN 152 ◊# | Introduction to Spanish American Literature II | 3 |

**Fine Arts**

| | | |
|---|---|---|
| ART 110 ◊ | Looking at Art | 3 |
| ART 111 ◊ | Ancient to Medieval Art | 3 |
| ART 112 ◊ | Renaissance to Modern Art | 3 |
| ART 114 ◊ | Survey of Asian Art | 3 |
| HUM 104 ◊ | Humanities Through the Arts | 3 |
| HUM 170 ◊# | Introduction to Women's and Gender Studies | 3 |
| IDS 101 ◊ | The Arts in Western Culture I | 3 |
| IDS 102 ◊ | The Arts in Western Culture II | 3 |
| MCM 150 ◊ | Film History and Appreciation | 3 |
| MCM 151 ◊ | Cinema Appreciation | 3 |
| MCM 152 ◊ | Cinema History | 3 |
| MUS 110 ◊ | Listening to Music | 3 |
| MUS 215 ◊# | Introduction to Music History | 3 |
| MUS 216 ◊ | Music in America | 3 |
| SPE 130 ◊ | Introduction to Theatre | 3 |
| VIC 160 ◊ | History of Photography | 3 |

**Mathematics:**

Two courses (six to nine semester credits)

| | | |
|---|---|---|
| ECO 170 ◊# | Statistics for Business and Economics | 3 |
| MAT 101 ◊# | Quantitative Literacy | 3 |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| MAT 117 ◊# | Math for Elementary School Teachers II | 3 |
| MAT 124 ◊# | Finite Mathematics | 3 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| MAT 134 ◊# | Introduction to Calculus for Business and Social Science | 5 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| MAT 235 ◊# | Calculus & Analytic Geometry III | 5 |

**Physical and Life Science:**

Three courses (10-11 semester credits), with at least one course selected from the Life Sciences and one course from the Physical Sciences and including at least one laboratory course.

**Physical Science**

| | | |
|---|---|---|
| AST 100 ◊ | Introduction to Astronomy | 4 |
| AST 101 ◊ | Astronomy of the Solar System | 4 |
| AST 102 ◊ | Astronomy of the Stars and Beyond | 4 |
| CHM 100 ◊ | Chemistry and Society | 4 |
| CHM 110 ◊# | Fundamentals of Chemistry | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| GEO 200 ◊ | Physical Geography: Weather and Climate | 4 |
| GEO 201 ◊ | Physical Geography: Maps and Land Forms | 4 |
| GOL 101 ◊ | Physical Geology | 4 |
| GOL 102 ◊ | Evolution of the Earth | 4 |
| GOL 103 ◊ | Environmental Geology: Aspects of Global Hazards and Change | 3 |
| PHS 100 ◊ | Introduction to Earth Science | 4 |
| PHS 141 ◊ | Application of Physical Science Concepts | 4 |
| PHS 142 ◊ | Science of Light and Music | 4 |
| PHY 100 ◊# | General Physics | 4 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| PHY 106 ◊# | General Physics (Mechanics) | 4 |

**Life Science**

| | | |
|---|---|---|
| BIS 100 ◊ | General Biology | 4 |
| BIS 101 ◊ | Human Biology | 4 |
| BIS 102 ◊ | Human Heredity and Society | 4 |
| BIS 105 ◊ | Environmental Biology | 4 |
| BIS 108 ◊ | Biology of Humans | 3 |
| BIS 113 ◊ | Introduction to General Biology | 3 |
| BIS 114 ◊ | Microbes and Society | 3 |
| BIS 150 ◊# | Principles of Biology I | 4 |
| BIS 151 ◊# | Principles of Biology II | 4 |
| HRT 125 ◊ | Plants and Society | 4 |

**General Education Core:**

12 courses (37 to 41 semester credits)

- No more than two courses from any one discipline can be used to fulfill General Education Core curriculum requirements.
- While few baccalaureate institutions require a foreign or second language in their campus-wide general education requirements, competency through two, three, or four college semesters (or the high school equivalent) in a single foreign/second language is required for the Bachelor of Arts degree at some universities, for all bachelor's degrees in some colleges (such as Colleges of Liberal Arts, and for some bachelor's degree majors.
- **Community college students who intend to transfer should plan to complete the foreign language courses required by their intended transfer institution, college within a university and /or major prior to transferring.**
- Students must earn a passing letter grade in each course used to fulfill requirements. Passing scores (based on national norms) on appropriate AP and CLEP exams may be used to fulfill requirements for students who earn an Associate in Arts or an Associate in Science degree prior to transfer. For other transfer students, receiving institutions will follow established credit policies.

**Transfer Major and Electives (19-23 credit hours)**

- It is recommended that students select the remaining courses from their major area of study of the IAI approved or articulated courses with a counselor.
- It is highly recommended that students enroll in COL 102◊, CSG 150◊ and HTH 104◊ or HTH 281◊.

# Accounting and Business Administration, Associate in Science

**Curriculum BUS.ACC.AS (U230A06)**

For transfer students with interests in accounting, law, economics, history, economics of government and business, finance, management, marketing, human resource management and business education.

Since four-year schools differ greatly in their requirements, students should select courses from the general education requirements and electives list that will best fit the program of the school to which they intend to transfer.

**Semester One**

| | | |
|---|---|---|
| ACC 101 ◊ | Financial Accounting | 4 |
| BUS 141 ◊ | Introduction to Business | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Humanities | 3 |
| | General education/Social or Behavioral Science (no Economics courses) | 3 |
| | **Subtotal: 16** | |

**Semester Two**

| | | |
|---|---|---|
| ACC 105 ◊# | Managerial Accounting | 3 |
| BUS 161 ◊ | Business Law I | 3 |
| MAT 124 ◊# | Finite Mathematics | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Life Science | 3-4 |
| | **Subtotal: 15-16** | |

**Semester Three**

| | | |
|---|---|---|
| ECO 102 ◊ | Macroeconomics | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Physical and Life Science | 3-5 |
| | Electives | 5 |
| | **Subtotal: 14-16** | |

**Semester Four**

| | | |
|---|---|---|
| ECO 103 ◊ | Microeconomics | 3 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| | OR | |
| MAT 134 ◊# | Introduction to Calculus for Business and Social Science | 5 |
| | General education/Fine Arts | 3 |
| | General education/Physical Science | 4-5 |
| | **Subtotal: 15-16** | |

**Recommended Electives:**

| | | |
|---|---|---|
| ACC 251 ◊# | Intermediate Accounting I | 3 |
| ACC 252 ◊# | Intermediate Accounting II | 3 |
| ACC 266 ◊# | Cost Accounting | 3 |
| BUS 127 ◊ | Principles of Marketing | 3 |
| BUS 128 ◊ | Sales Force Management | 3 |
| BUS 150 ◊ | Principles of Management | 3 |
| BUS 200 ◊ | Introduction to Human Resource Management | 3 |
| BUS 212 ◊# | Principles of Finance | 3 |
| BUS 262 ◊# | Business Law II | 3 |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| CIS 150 ◊# | Computer Systems Applications | 3 |
| ECO 150 ◊# | Money, Credit & Banking | 3 |
| ECO 170 ◊# | Statistics for Business and Economics | 3 |
| GEO 105 ◊ | Economic Geography | 3 |

*ECO 170◊: satisfies partial fulfillment of the Mathematics requirement for this curriculum.*

*(Select courses that meet the BA requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Accounting, business courses or other electives for AS degree**

**Subtotal: 19-23**

*See ACC course descriptions* (p. 180)*; BUS course descriptions* (p. 191)

Foreign Language, Humanities, Mathematics, Natural Science, Social Science or Physical Education courses also are suggested.

**Coordinator:** Dr. William M. Griffin, Ext. 3579

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General Education electives must be selected from the AS Degree Requirements (p. 76) list *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AS Degree Requirements* (p. 76) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

# Anthropology, Associate in Science

**Curriculum BES.ANT.AS (U230A31)**

Anthropology is the study of humanity and its cultural diversity and biological evolution and adaptation. Courses offered examine human behavior in ancient contexts (archaeology), contemporary society (cultural anthropology), and the biological evolution of humanity (biological anthropology). Students interested in anthropology as a four-year major should consult the catalog of their transfer school for social, physical and life science requirements appropriate to the first two years of study.

**Recommended courses:**

| | | |
|---|---|---|
| **Semester One** | | |
| ANT 101 ◊ | Introduction to Anthropology | 3 |
| GOL 101 ◊ | Physical Geology | 4 |
| MAT 101 ◊# | Quantitative Literacy | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 16** | |
| **Semester Two** | | |
| ANT 103 ◊ | Cultural Anthropology | 3 |
| ART 111 ◊ | Ancient to Medieval Art | 3 |
| HIS 156 ◊ | African History | 3 |
| PHL 105 ◊ | World Religions | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | **Subtotal: 15** | |

*RHT 101◊, RHT 102◊: Grade of 'C' or better is an IAI requirement.*

| | | |
|---|---|---|
| **Semester Three** | | |
| ANT 105 ◊ | Digging Into Archaeology | 3 |
| BIS 101 ◊ | Human Biology | 4 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| | Foreign Language (as appropriate) | 4 |
| | **Subtotal: 15** | |
| **Semester Four** | | |
| ANT 102 ◊ | Introduction to Biological Anthropology | 3 |
| BIS 102 ◊ | Human Heredity and Society | 4 |
| MAT 134 ◊# | Introduction to Calculus for Business and Social Science | 5 |
| | Foreign Language (as appropriate) | 4 |
| | **Subtotal: 16** | |

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Anthropology courses or other electives for AS degree**

**Subtotal: 19-23**

*See ANT course descriptions* (p. 182).

See U230A, Associate in Science degree requirements (p. 76) for a list of applicable general education courses. The Social and Behavioral Science courses must be selected from two different disciplines. For Humanities and Fine Arts requirements, one course must be selected from Fine Arts and one course must be selected from Humanities. One course from Social and Behavioral Science or Humanities and Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.

*Note: This is a generic outline of courses for this program of study. Requirements may vary based on specialty and/or chosen transfer school. Meet with a curriculum counselor for specific transfer recommendations. (Select courses that meet the BS requirements of your transfer college.)*

**Chairperson:** Victor McCullum, Ext. 3311

# Biological Sciences, Associate in Science

**Curriculum SCI.BIS.AS (U230A26)**

Biological Science majors may find careers available in biological research, teaching, state and federal government departments, such as environmental protection agencies, park services, departments of natural resources or in private industries, such as forest products, agriculture and food products.

Students planning to major in Biological Sciences must be ready to take RHT 101◊, MAT 111◊ and have had at least one unit of high school Biology and one unit of high school Chemistry. Students meeting these qualifications may then take the following sequence of Science and Mathematics courses along with the appropriate general education courses.

| | | |
|---|---|---|
| **Semester One** | | |
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education | 3 |
| | **Subtotal: 15** | |
| **Semester Two** | | |
| BIS 151 ◊# | Principles of Biology II | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education | 3 |
| | **Subtotal: 15** | |

*RHT 101◊, RHT 102◊: Grade of 'C' or better is an IAI requirement.*

| | | |
|---|---|---|
| **Semester Three** | | |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education | 3 |
| | **Subtotal: 16** | |

**Semester Four**

| | | |
|---|---|---|
| MAT 170 ◊# | Elementary Statistics | 4 |
| PHY 102 ◊# | General Physics (Electricity, Magnetism, Optics & Modern Physics) | 5 |
| | General education | 3 |
| | Program Electives | 3-5 |

**Subtotal: 15-17**

*General Education: See U230A, Associate in Science degree requirements for a list of applicable general education courses. The Social and Behavioral Science courses must be selected from two different disciplines. For Humanities and Fine Arts requirements, one course must be selected from Fine Arts and one course must be selected from Humanities. One course from Social and Behavioral Science or Humanities and Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.*

**Suggested additional electives:**

| | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| BIS 102 ◊ | Human Heredity and Society | 4 |
| BIS 105 ◊ | Environmental Biology | 4 |
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Biological Sciences courses or other electives for AS degree**

**Subtotal: 19-23**

*See BIS course descriptions* (p. 188)

*Note: This is a generic outline of courses for this program of study. Requirements may vary based on specialty and/or chosen transfer school. Meet with a curriculum counselor for specific transfer recommendations.*

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

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General Education electives must be selected from the AS Degree Requirements (p. 76) list *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AS Degree Requirements* (p. 76) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

# Chemistry, Associate in Science

**Curriculum SCI.CHM.AS (U230A28)**

Many careers are open to Chemistry majors. Lab technician positions in the chemical industry are available for students with an associate in science degree. Students continuing with a four-year Chemistry major program have career possibilities in research, government, patent law, business administration, sales and purchasing, chemical engineering, environmental work (pollution control and ecology) and quality control in the food industry. Students planning a career in medicine, dentistry or veterinary science often major in Chemistry with supporting Biology courses.

The following courses are recommended for transfer to a four-year college or university for students intending to major in Chemistry. To complete the associate in science degree, all general education requirements must be completed, plus additional courses for a total of 64 credits.

**Semester One**

| | | |
|---|---|---|
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| HIS 141 ◊ | World History I | 3 |

**Subtotal: 16**

**Semester Two**

| | | |
|---|---|---|
| CHM 141 ◊# | General Chemistry II | 5 |
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| PHL 103 ◊ | Ethics | 3 |

**Subtotal: 16**

**Semester Three**

| | | |
|---|---|---|
| CHM 234 ◊# | Organic Chemistry I | 5 |
| PHS 141 ◊ | Application of Physical Science Concepts | 4 |
| PHY 106 ◊# | General Physics (Mechanics) | 4 |
| PSY 100 ◊ | Introduction to Psychology | 3 |

**Subtotal: 16**

**Semester Four**

| | | |
|---|---|---|
| ART 110 ◊ | Looking at Art | 3 |
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 235 ◊# | Organic Chemistry II | 5 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

**Subtotal: 15**

**Suggested additional elective:**

| | | |
|---|---|---|
| PHY 107 ◊# | General Physics (Electricity, Magnetism, and Thermodynamics) | 4 |
| PHY 108 ◊# | General Physics (Waves, Optics, Relativity & Quantum Mechanics) | 4 |

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Chemistry courses or other electives for AS degree**

**Subtotal: 19-23**

*See CHM course descriptions* (p. 195)

PHY 106◊, PHY 107◊ and PHY 108◊ are required for students planning to major in Engineering.

CHM 234◊, CHM 235◊: Recommend completion of CHM 234◊ and CHM 235◊ sequence at Triton.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

## Computer Science (Information Systems), Associate in Science

**Curriculum CIS.CSI.AS (U230A11)**

Students intending to major in Computer Science with a business emphasis in Information Systems will need a background in Mathematics and information systems. Baccalaureates in Information Systems generally find employment as programmers, systems analysts, operations research, database management or system administrators.

Students should note that four-year colleges and universities vary in specific course and transfer requirements. Therefore, it is important that in selecting Triton courses, students should consult a Triton counselor, as well as the catalog and/or admissions advisor at the senior institution to which transfer is intended.

**Semester One**

| | | |
|---|---|---|
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 16**

**Semester Two**

| | | |
|---|---|---|
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Major Field Electives | 3-4 |

**Subtotal: 14-15**

**Semester Three**

| | | |
|---|---|---|
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |
| | General education/Humanities | 3 |
| | General education/Physical and Life Science | 4-5 |
| | Major Field Electives | 3-4 |

**Subtotal: 16-18**

**Semester Four**

| | | |
|---|---|---|
| | General education/Mathematics | 3-5 |
| | General education/Physical and Life Science | 4-5 |
| | Major Field Electives | 6 |

**Subtotal: 13-16**

*General education/Social and Behavioral Science, General education/Fine Arts, General education/Humanities, Recommended General Education Courses: General education/Social and Behavioral Science courses need to be chosen from two different disciplines. One course from Social/Behavioral Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.*

**Recommended General Education Courses:**

| | | |
|---|---|---|
| MAT 235 ◊# | Calculus & Analytic Geometry III | 5 |
| MAT 341 ◊# | Differential Equations | 3 |
| PHL 102 ◊ | Logic | 3 |
| PHY 107 ◊# | General Physics (Electricity, Magnetism, and Thermodynamics) | 4 |

**Recommended Major Field Electives:**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| CIS 102# | Professional Information Technology and Computer Science | 3 |
| CIS 121 ◊# | Introduction to Programming | 3 |
| CIS 125 ◊# | Discrete Mathematics for Computing | 4 |
| CIS 195 ◊# | Programming for Engineers | 3 |
| CIS 255 ◊# | C++ Programming | 3 |
| CIS 210 ◊# | Data Communications & Networking Fundamentals | 3 |
| CIS 263 ◊# | Introduction to Object Oriented Programming | 3 |
| CIS 265 ◊# | Computer Architecture and Assembly Language | 4 |
| CIS 278 ◊# | Database Management Systems | 3 |
| CIS 295 ◊# | Data Structures With C++ | 3 |

*(Select courses that meet the BS requirements of your transfer college)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Computer Science courses or other electives for AS degree**

**Subtotal: 19-23**

*See CIS course descriptions* (p. 196)

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Meet with the curriculum counselor for specific transfer school recommendations.

**Coordinator:** David Anderson, Ext. 3349

# Computer Science (Technical), Associate in Science

**Curriculum CIS.CST.AS (U230A12)**

Students majoring in Computer Science with a Mathematics emphasis need a strong background in Mathematics and computing theory. Bachelor of Science degree graduates will find employment as programmers in scientific and engineering applications, graphics, operating systems or be prepared for graduate education in Computer Science.

Students should note that four-year colleges and universities vary in specific course and transfer requirements. Therefore, it is important that in selecting Triton courses, students should consult a Triton counselor, as well as the catalog and/or admissions advisor at the senior institution to which transfer is intended.

**Semester One**

| | | |
|---|---|---|
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social and Behavioral Science | 3 |
| | **Subtotal:** | **16** |

**Semester Two**

| | | |
|---|---|---|
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Major Field Electives | 3-4 |
| | **Subtotal:** | **14-15** |

**Semester Three**

| | | |
|---|---|---|
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Physical and Life Science | 4-5 |
| | General education/Fine Arts | 3 |
| | General education/Humanities | 3 |
| | Major Field Electives | 3-4 |
| | **Subtotal:** | **16-18** |

**Semester Four**

| | | |
|---|---|---|
| | General education/Physical and Life Science | 4-5 |
| | General education/Mathematics | 3-5 |
| | Major Field Electives | 7 |
| | **Subtotal:** | **14-17** |

*General education/Social and Behavioral Science, General education/Fine Arts, General education/Humanities, Recommended General Education Courses: General education/Social and Behavioral Science courses need to be chosen from two different disciplines. One course from Social/Behavioral Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.*

**Recommended General Education Courses:**

| | | |
|---|---|---|
| MAT 235 ◊# | Calculus & Analytic Geometry III | 5 |
| MAT 341 ◊# | Differential Equations | 3 |
| PHL 102 ◊ | Logic | 3 |
| PHY 107 ◊# | General Physics (Electricity, Magnetism, and Thermodynamics) | 4 |

**Recommended Major Field Electives:**

| | | |
|---|---|---|
| CIS 121 ◊# | Introduction to Programming | 3 |
| CIS 125 ◊# | Discrete Mathematics for Computing | 4 |
| CIS 195 ◊# | Programming for Engineers | 3 |
| CIS 255 ◊# | C++ Programming | 3 |
| CIS 263 ◊# | Introduction to Object Oriented Programming | 3 |
| CIS 265 ◊# | Computer Architecture and Assembly Language | 4 |
| CIS 295 ◊# | Data Structures With C++ | 3 |

*(Select courses that meet the BS requirements of your transfer college)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Computer Science courses or other electives for AS degree**

**Subtotal: 19-23**

*See CIS course descriptions* (p. 196)

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Meet with the curriculum counselor for specific transfer school recommendations.

**Coordinator:** David Anderson, Ext. 3349

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General Education electives must be selected from the AS Degree Requirements (p. 76) list *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AS Degree Requirements* (p. 76) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

# Criminal Justice Administration, Associate in Science

**Curriculum CJA.CJA.AS (U230A43)**

This concentration of courses prepares students interested in transferring to a four-year school for a bachelor's degree in criminal or social justice. The courses also provide a background for students interested in law, law enforcement, juvenile work, probation services, parole services, work release or halfway house counseling.

**Semester One**

| | | |
|---|---|---|
| CJA 111 ◊ | Introduction to Criminal Justice | 3 |
| CJA 121 ◊ | Introduction to Corrections | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Physical and Life Science | 4-5 |

**General education/Social or Behavioral Science (choose one from the following):**

| | | |
|---|---|---|
| PSY 100 ◊ | Introduction to Psychology | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |

**Subtotal: 16-17**

**Semester Two**

| | | |
|---|---|---|
| CJA 181 ◊ | Juvenile Delinquency & Law | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Life Sciences | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Electives | 3-4 |

**Subtotal: 15-16**

**Semester Three**

| | | |
|---|---|---|
| CJA 219 ◊# | Criminal Law I | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Mathematics | 3 |
| | General education/Physical and Life Science | 3-4 |

**Subtotal: 15-16**

**Semester Four**

| | | |
|---|---|---|
| CJA 201 ◊# | Criminology | 3 |
| HTH 104 ◊ | Science of Personal Health | 2 |
| | OR | |
| HTH 281 ◊ | First Aid & CPR | 2 |
| | General education/Fine Arts | 3 |
| | General education/Mathematics | 3 |
| | Electives | 3-4 |

**Subtotal: 14-15**

*Electives: It is recommended that students select a minimum of 20 elective credits from the Criminal Justice Administration area.*

**Suggested General Education and/or Electives:**

| | | |
|---|---|---|
| ECO 102 ◊ | Macroeconomics | 3 |
| PHL 103 ◊ | Ethics | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |
| | One year of a foreign language sequence | 8 |

**Recommended Criminal Justice Administration Courses:**

| | | |
|---|---|---|
| CJA 161 ◊ | Administration of Justice | 3 |
| CJA 246 ◊# | Laws of Evidence | 3 |
| CJA 257 ◊# | Law Enforcement Administration | 3 |
| CJA 296 ◊ | Special Topics in Criminal Justice | 0.5 - 4 |

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Criminal Justice courses or other electives for AS degree**

**Subtotal: 19-23**

*See CJA course descriptions* (p. 204)

***Note:*** *See Associate in Applied Science degree in Criminal Justice Administration* (p. 127) *for more information. Also available are certificates in Corrections* (p. 128)*, Law Enforcement* (p. 128) *and Armed Security* (p. 129).

**Coordinator:** Gregory Catena, Ext. 3327

# Economics, Associate in Science

**Curriculum SOC.ECO.AS (U230A08)**

The Associate in Science Degree, with an emphasis in economics at Triton College examines how markets functions through prices, income, resources, market structures, rates of unemployment, inflation, and other key economic factors. An introduction to how Economics deals with various social problems through basic techniques of analysis, critical thinking, and evaluations of private and public policy issues.

**Semester One**

| | | |
|---|---|---|
| ECO 102 ◊ | Macroeconomics | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| MAT 111 ◊# | Pre-Calculus | 5 |
| | General education/Humanities | 3 |
| | General education/Fine Arts | 3 |

**Subtotal: 16**

**Semester Two**

| | | |
|---|---|---|
| ECO 103 ◊ | Microeconomics | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| | OR | |
| MAT 134 ◊# | Introduction to Calculus for Business and Social Science | 5 |
| | General education/Physical Science | 4-5 |
| | **Subtotal: 15-16** | |

*MAT 131◊, MAT 134◊: Not all universities require calculus. You can substitute an alternative general education math based on your undergraduate program of study and transfer school choice.*

**Semester Three**

| | | |
|---|---|---|
| ECO 170 ◊# | Statistics for Business and Economics | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Physical Science | 4-5 |
| | Electives | 3-5 |
| | **Subtotal: 13-16** | |

**Semester Four**

| | | |
|---|---|---|
| | General education/Social or Behavioral Science or Humanities or Fine Arts Human Diversity course | 3 |
| | General education/Life Science | 3-4 |
| | Electives | 9-10 |
| | **Subtotal: 15-17** | |

**Semester Five (optional Summer)**

Recommended courses:

| | | |
|---|---|---|
| ACC 101 ◊ | Financial Accounting | 4 |
| ACC 105 ◊# | Managerial Accounting | 3 |
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |

*MAT 133◊: Not all universities require calculus. You can substitute an alternative general education math based on your undergraduate program of study and transfer school choice.*

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Economics courses or other electives for AS degree**

**Subtotal: 19-23**

*See ECO course descriptions* (p. 214).

General education/Social or Behavioral Science need to be chosen from 2 different disciplines.

One course from Social or Behavioral Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.

This is a generic outline of courses for this program of study. Requirements may vary based on specialty and/or chosen transfer school. Meet with the curriculum counselor for specific transfer school recommendations.

**Chairperson:** Bill Decker, Ext. 3509

# Environmental Science, Associate in Science

**Curriculum SCI.ENV.AS (U230A29)**

The Environmental Science program includes a broad science-based curriculum for students planning to pursue a baccalaureate degree at a transfer college or university. Provides students with a strong foundation in mathematics and the sciences, including biology, chemistry, and geology. Environmental science majors may find a wide range of career opportunities available in environmental testing laboratories, state and federal government agencies, including the Environmental Protection Agency, U.S. Geological Survey, Departments of Natural Resources, the National Park Service, soil and water conservation services, as well as private or non-profit organizations.

**Semester One**

| | | |
|---|---|---|
| BIS 105 ◊ | Environmental Biology | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Humanities | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | **Subtotal: 16** | |

*RHT 101◊, RHT 102◊: Grade of 'C' or better is an IAI requirement.*

**Semester Three**

| | | |
|---|---|---|
| BIS 151 ◊# | Principles of Biology II | 4 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| | General education/Social and Behavioral Science | 3 |
| | Electives | 4 |
| | **Subtotal: 16** | |

**Semester Four**

| | | |
|---|---|---|
| ENV 150 | | |
| GOL 103 ◊ | Environmental Geology: Aspects of Global Hazards and Change | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |
| | General education/Social and Behavioral Science | 3 |
| | **Subtotal: 16** | |

*General education/Humanities, Behavioral Science, General education/Fine Arts: See U230A, Associate in Science degree requirements (p. 76) for a list of applicable general education courses. The Social and Behavioral Science courses must be selected from two different disciplines. For Humanities and Fine Arts requirements, one course must be selected from Fine Arts and one course must be selected from Humanities. One course from Social and Behavioral Science or Humanities and Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.*

**Recommended electives:**

| | | |
|---|---|---|
| BIS 205 ◊# | Field Ecology | 4 |
| BIS 222 ◊# | Principles of Microbiology | 4 |
| GEO 200 ◊ | Physical Geography: Weather and Climate | 4 |
| GEO 201 ◊ | Physical Geography: Maps and Land Forms | 4 |
| GOL 101 ◊ | Physical Geology | 4 |
| PHS 100 ◊ | Introduction to Earth Science | 4 |

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Biological Sciences courses or other electives for AS degree**

**;[**

*See BIS course descriptions* (p. 188).

*Note: This is a generic outline of courses for this program of study. Requirements may vary based on specialty and/or chosen transfer school. Meet with a curriculum counselor for specific transfer recommendations.*

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

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General Education electives must be selected from the AS Degree Requirements (p. 76) list *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AS Degree Requirements* (p. 76) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

# Geology, Associate in Science

**Curriculum SCI.GOL.AS (U230A33)**

The geological sciences are fundamentally the study of Earth, its crust and global internal structure, ocean basins, continents, mountains, volcanoes, earthquakes, glaciers and other surface features. Geology also is concerned with the history of the planet, the origin and evolution of the continents, seas and life. Employment opportunities for the geologist are found with state and federal agencies and private engineering firms concerned with land use, geologic hazards, hazardous waste disposal and the management of important resources such as oil, gas, coal, water and various minerals.

**Semester One**

| | | |
|---|---|---|
| ANT 101 ◊ | Introduction to Anthropology | 3 |
| | OR | |
| ANT 103 ◊ | Cultural Anthropology | 3 |
| CHM 140 ◊# | General Chemistry I | 5 |
| GOL 101 ◊ | Physical Geology | 4 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |

**Subtotal: 15**

**Semester Two**

| | | |
|---|---|---|
| CHM 141 ◊# | General Chemistry II | 5 |
| GOL 103 ◊ | Environmental Geology: Aspects of Global Hazards and Change | 3 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |

**Subtotal: 16**

*RHT 101◊, RHT 102◊: Grade of 'C' or better is an IAI requirement.*

**Semester Three**

| | | |
|---|---|---|
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |

**Subtotal: 16**

**Semester Four**

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| PHY 102 ◊# | General Physics (Electricity, Magnetism, Optics & Modern Physics) | 5 |
| | General education/Humanities | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 15**

*General Education/Fine Arts, General Education/Humanities, Behavioral Science: One course from Social and Behavioral Science or Humanities and Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists. ANT 101◊ and ANT 103◊ meet this requirement.*

*Behavioral science: Because most careers in Geology are reliant on the economics of natural resources, a choice from ECO 102◊ or ECO 103◊ is recommended, but not required, to fill one of the Social and Behavioral Science requirements.*

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Geology courses or other electives for AS degree**

**Subtotal: 19-23**

*See GOL course descriptions* (p. 229).

Note: See U230A, Associate in Science degree requirements (p. 76) for a list of applicable general education courses.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Health, Sport and Exercise Science, Associate in Science

(formerly Physical Education)

**Curriculum HSE.PED.AS (U230A36)**

Triton's Health, Sport and Exercise Science department offers a program that is as diverse as Triton's student body. If you want to major in Physical Education, Health or Exercise Science, want to be involved in sports or are simply interested in keeping fit, you can choose from a variety of transferable credit courses/concentrations. The schedule shown below is provided as guidance to students seeking the associate in science degree.

**General Education Core**

12 courses (40-41 semester credits)

See Associate in Science degree requirements, (ASD.AS.AS (U230A)) (p. 76) for a list of applicable general education courses.

**Communications:**

Three courses (nine semester credits)

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

**Subtotal: 9**

***Note: Grade of "C" or better is an IAI requirement for** RHT 101◊ **and** RHT 102◊*

**Social and Behavioral Sciences:**

Three courses (nine semester credits) with courses selected from at least two disciplines

**Recommended Social and Behavioral Sciences Courses:**

Two courses (six credits) with courses selected from at least two disciplines.

| | | |
|---|---|---|
| PSY 100 ◊ | Introduction to Psychology | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |

**Subtotal: 6**

**Humanities and Fine Arts:**

Two courses (six semester credits) with at least one course selected from Humanities and at least one course from Fine Arts. Graduation from an Illinois college or university requires satisfactory completion of one or more courses incorporating Human Diversity, which may be taken as a Humanities and Fine Arts or Social and Behavioral Science course. These courses are notated with an asterisk (*).

See Associate in Science degree requirements, (ASD.AS.AS (U230A)) (p. 76) for a list of applicable general education courses.

**Mathematics:**

Two courses (seven semester credits)

See Associate in Science degree requirements, (ASD.AS.AS (U230A)) (p. 76) for a list of applicable general education courses.

| | | |
|---|---|---|
| MAT 170 ◊# | Elementary Statistics | 4 |

**and one of the following:**

| | | |
|---|---|---|
| MAT 101 ◊# | Quantitative Literacy | 3 |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| MAT 124 ◊# | Finite Mathematics | 3 |

**Physical and Life Sciences:**

Three courses (13 - 14 semester credits) with at least one course selected from the Life Sciences and one course from Physical Sciences.

See Associate in Science degree requirements, (ASD.AS.AS (U230A)) (p. 76) for a list of applicable general education courses.

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |

**and two of the following:**

| | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |

**Required Health, Sport and Exercise Science Core**

| | | |
|---|---|---|
| HTH 104 ◊ | Science of Personal Health | 2 |
| HTH 120 ◊ | Nutrition Science | 3 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| PED 153 ◊ | Foundations of Exercise | 3 |

**Subtotal: 10**

**Area of concentration courses:**

**Physical Education Teaching Concentration:**

| (HSE.PET.AS) | | |
|---|---|---|
| PED 106 ◊ | Total Fitness | 1 |
| PED 150 ◊ | Introduction to Physical Education | 2 |
| PED 159 ◊ | Selected Team and Recreation Sports | 3 |
| PED 169 ◊ | Elementary School Games | 3 |
| | | **Subtotal: 9** |

**Athletic Training Concentration:**

| (HSE.ATH.AS) | | |
|---|---|---|
| HTH 220 ◊ | Athletic Training Techniques | 3 |
| HTH 221 ◊ | Sport Specific Training and Rehabilitation | 3 |
| PED 200 ◊ | Introduction to Biomechanics | 3 |
| | | **Subtotal: 9** |

**Coaching Concentration:**

| (HSE.COA.AS) | | |
|---|---|---|
| HTH 220 ◊ | Athletic Training Techniques | 3 |
| PED 194 ◊ | Principles of Coaching | 3 |
| PED 196 ◊ | Sport and Exercise Psychology | 3 |
| | OR | |
| PED 197 ◊ | Sociology of Sport | 3 |
| | | **Subtotal: 9** |

**Wellness and Nutrition Concentration:**

| (HSE.WNT.AS) | | |
|---|---|---|
| HTH 175 ◊ | Drug & Alcohol Education | 3 |
| HTH 202 ◊ | Culture and Food | 3 |
| PSY 207 ◊# | Health Psychology | 3 |
| | | **Subtotal: 9** |

**Sport and Recreation Concentration:**

| (HSE.SPR.AS) | | |
|---|---|---|
| PED 100 ◊ | Foundations of Physical Activity | 1 |
| PED 194 ◊ | Principles of Coaching | 3 |
| PED 201 ◊ | Sports Officiating | 2 |
| **and one of the following:** | | |
| PED 195 ◊ | Introduction to Sport Management | 3 |
| PED 196 ◊ | Sport and Exercise Psychology | 3 |
| PED 197 ◊ | Sociology of Sport | 3 |
| PED 275 ◊ | Facilities Management | 3 |
| | | **Subtotal: 9** |

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements:**
AS degree (p. 76)

**Subtotal: 37-41**

**Health, Sport and Exercise Science courses or other electives for AS degree**

**Subtotal: 19-23**

*See PED course descriptions* (p. 257).

The number of required elective credit is determined by the program option completed.

**Chairperson:** Julianne Murphy, Ext. 3087

## International Business, Associate in Science

**Curriculum SOC.IBU.AS (U230A07)**

This concentration is designed for transfer students with interests in international marketing, finance, economics and management.

**Recommended courses:**

| | | |
|---|---|---|
| ACC 101 ◊ | Financial Accounting | 4 |
| ACC 105 ◊# | Managerial Accounting | 3 |
| BUS 161 ◊ | Business Law I | 3 |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| ECO 102 ◊ | Macroeconomics | 3 |
| ECO 103 ◊ | Microeconomics | 3 |
| ITL 101 ◊ | Elementary Italian I | 4 |
| ITL 102 ◊# | Elementary Italian II | 4 |
| SPN 101 ◊ | Elementary Spanish I | 4 |
| SPN 102 ◊# | Elementary Spanish II | 4 |
| | OR | |
| ITL 103 ◊# | Intermediate Italian I | 4 |
| ITL 104 ◊# | Intermediate Italian II | 4 |
| SPN 103 ◊# | Intermediate Spanish I | 4 |
| SPN 104 ◊# | Intermediate Spanish II | 4 |
| GEO 105 ◊ | Economic Geography | 3 |

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General Education electives must be selected from the AS Degree Requirements (p. 76) list *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AS Degree Requirements* (p. 76) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

**Recommended electives:**

| | | |
|---|---|---|
| ANT 103 ◊ | Cultural Anthropology | 3 |
| BUS 141 ◊ | Introduction to Business | 3 |
| MAT 110 ◊# | College Algebra | 5 |
| MAT 124 ◊# | Finite Mathematics | 3 |
| MAT 134 ◊# | Introduction to Calculus for Business and Social Science | 5 |
| PSC 184 ◊ | Global Politics | 3 |

*(Select courses that meet the BS requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Business courses or other electives for AS degree**

**Subtotal: 19-23**

*See BUS course descriptions* (p. 191).

**Chairperson** (Social Science): Bill Decker, Ext. 3509
**Coordinator** (Business): Dr. William M. Griffin, Ext. 3579

# Mathematics, Associate in Science

**Curriculum MAT.MAT.AS (U230A27)**

The study of mathematical sciences involves ideas and techniques that are essential for the natural and social sciences and increasingly important in all areas of society.

Triton College Mathematics department offers a variety of classes, including those described below.

**The following courses all are articulated and intended to transfer under the Illinois Articulation Initiative.**

They may be used to fulfill **General Education Core requirements.**

| | | |
|---|---|---|
| MAT 101 ◊# | Quantitative Literacy | 3 |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| MAT 117 ◊# | Math for Elementary School Teachers II | 3 |
| MAT 124 ◊# | Finite Mathematics | 3 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| MAT 134 ◊# | Introduction to Calculus for Business and Social Science | 5 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| MAT 224 ◊# | Linear Algebra | 3 |
| MAT 235 ◊# | Calculus & Analytic Geometry III | 5 |

*MAT 224◊: usually offered as independent study*

*Students who select a major in Mathematics or a related field should plan their selections with the transfer college requirements in mind. In all cases, it is strongly recommended that the calculus sequence be completed at Triton College, as many transfer schools will not accept single courses as evidence of meeting requirements.*

**Some students will be required to take courses, which transfer as electives and are not applied to the General Education Core, but do constitute a prerequisite toward the calculus sequence and Finite Math.**

They are:

| | | |
|---|---|---|
| MAT 110 ◊# | College Algebra | 5 |
| MAT 111 ◊# | Pre-Calculus | 5 |
| MAT 114 ◊# | Plane Trigonometry | 3 |

*Anyone intending to pursue calculus can qualify by completing both MAT 110◊ and MAT 114◊ OR only MAT 111◊. Credit for MAT 110◊ or MAT 114◊ will not be given if credit for MAT 111◊ previously has been earned.*

*Occupational fields open to students who complete college Mathematics curricula include analysis in industry or government, teaching, actuarial work, computer programming, data analysis and other statistical work, and mathematical aspects of business and finance.*

**Suggested Program:**

**Semester One**

| | | |
|---|---|---|
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Humanities and Fine Arts | 3 |

**Subtotal: 16**

**Semester Two**

| | | |
|---|---|---|
| CIS 195 ◊# | Programming for Engineers | 3 |
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Life Science | 3-4 |

**Subtotal: 14-15**

*RHT 101◊, RHT 102◊: Grade of 'C' or better is an IAI requirement.*

---

General Education electives must be selected from the AS Degree Requirements list (p. 76) *and* must adhere to the requirements of the Illinois Articulation Initiative for graduation if planning to transfer within Illinois. *Students are required to select at least one course from Humanities and one course from Fine Arts, a Physical and a Life Science, and courses in Social and Behavior Sciences from at least two disciplines*. See catalog with AS Degree Requirements* (p. 76) *for required hours and number of courses in each discipline.*

*discipline: a subject or field of activity, for example, an academic subject

**Semester Three**

| | | |
|---|---|---|
| MAT 235 ◊# | Calculus & Analytic Geometry III | 5 |
| PHY 106 ◊# | General Physics (Mechanics) | 4 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 15**

**Semester Four**

| | | |
|---|---|---|
| MAT 224 ◊# | Linear Algebra | 3 |
| MAT 341 ◊# | Differential Equations | 3 |
| PHY 107 ◊# | General Physics (Electricity, Magnetism, and Thermodynamics) | 4 |
| | General education/Humanities and Fine Arts | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 16**

*(Select courses that meet the BS in Mathematics requirements of your transfer college.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Mathematics courses or other electives for AS degree**

**Subtotal: 19-23**

*See MAT course descriptions (p. 242).*

**Social and Behavioral Sciences:**

Two courses (six semester credits) with courses selected from at least two disciplines.

**Humanities and Fine Arts:**

Two courses (six semester credits) with at least one course selected from Humanities and one course selected from Fine Arts. Graduation from an Illinois college or university requires satisfactory completion of one or more courses incorporating Human Diversity, which may be taken as a Humanities and Fine Arts or Social and Behavioral Science course.

**Physical and Life Sciences:**

Three courses (10-15 semester credits) with at least one course selected from the Life Sciences and one course selected from Physical Sciences.

Recommended Life Science Courses:

| | | |
|---|---|---|
| BIS 100 ◊ | General Biology | 4 |
| BIS 105 ◊ | Environmental Biology | 4 |
| BIS 108 ◊ | Biology of Humans | 3 |

**Chairperson:** Glenn Jablonski, Ext. 3345

# Personal Trainer

(See Personal Trainer Certificate (p. 162))

# Physics, Associate in Science

**Curriculum SCI.PHY.AS (U230A34)**

The Physics curriculum consists of the first two years of courses needed for a bachelor's degree in Physics. The curriculum includes 12 hours of physics, 10 hours of chemistry, 18 hours of Mathematics, and 25 hours of general education courses. Students begin the two-year Associate in Science Physics program when they are ready to take RHT 101◊ and MAT 131◊.

**Semester One**

| | | |
|---|---|---|
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Humanities | 3 |

**Subtotal: 16**

**Semester Two**

| | | |
|---|---|---|
| CHM 141 ◊# | General Chemistry II | 5 |
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| PHY 106 ◊# | General Physics (Mechanics) | 4 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |

**Subtotal: 17**

**Semester Three**

| | | |
|---|---|---|
| MAT 235 ◊# | Calculus & Analytic Geometry III | 5 |
| PHY 107 ◊# | General Physics (Electricity, Magnetism, and Thermodynamics) | 4 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 18**

**Semester Four**

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| MAT 341 ◊# | Differential Equations | 3 |
| PHY 108 ◊# | General Physics (Waves, Optics, Relativity & Quantum Mechanics) | 4 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 14**

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Physics courses or other electives for AS degree**

**Subtotal: 19-23**

*See PHY course descriptions* (p. 262).

Note: Grade of "C" or better is an IAI requirement.

General education/Social and Behavioral Science: One course from Social and Behavioral Science or Humanities and Fine Arts needs to meet the human diversity requirement. The

courses meeting this requirements have an (*) in the general education lists. ANT 101◊ and ANT 103◊ meet this requirement.

This is a generic outline of courses for this program of study. Requirements may vary based on specialty and/or chosen transfer school. Meet with a curriculum counselor for specific transfer recommendations.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Pre-Profession

## Pre-Profession, Associate in Science

**Curriculum SCI.PPO.AS (U230A30)**

Pre-professional studies include programs in the health sciences (nutrition, dietetics, occupational therapy, nursing), pre-veterinary medicine, pre-pharmacy, pre-dentistry, pre-medicine and pre-optometry. Students typically begin a pre-professional program when ready to take RHT 101◊, MAT 111◊, MAT 131◊, and with the equivalent of at least one unit of high school Biology and one unit of high school Chemistry. To facilitate the transfer of credits to the professional school, the student should contact the school and counselor to help coordinate his/her course selection at Triton.

**Semester One**

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 15**

**Semester Two**

| | | |
|---|---|---|
| BIS 151 ◊# | Principles of Biology II | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |

**Subtotal: 17**

**Semester Three**

| | | |
|---|---|---|
| MAT 170 ◊# | Elementary Statistics | 4 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |
| | General education/Physical Science | 5 |

**Subtotal: 15**

**Semester Four**

| | | |
|---|---|---|
| | General education/Humanities | 3 |
| | General education/Physical and Life Science | 10 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 16**

*General education/Social and Behavioral Science, MAT 131◊: General education/Social and Behavioral Science recommend taking SOC 100◊ and PSY 100◊.*

**(Optional) Semester Five or Summer Semester**

| | | |
|---|---|---|
| | Science elective | 5 |

**Recommended Science Electives:**

| | | |
|---|---|---|
| CHM 234 ◊# | Organic Chemistry I | 5 |
| CHM 235 ◊# | Organic Chemistry II | 5 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| PHY 102 ◊# | General Physics (Electricity, Magnetism, Optics & Modern Physics) | 5 |

**Recommended Courses:**

| | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

One course from Social/Behavior Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an * in the general education lists.

*Note: All program required courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Students generally choose a major with a strong science foundation. Meet with the curriculum counselor for specific transfer school recommendations.

**The following specialized programs can be started at Triton College and then completed at a four-year college.**

Students should meet the general education requirements and recommended course work for Triton and then plan the remainder of their courses according to the four-year college requirements.

# Pre-Dentistry, Associate in Science

**Curriculum SCI.DNT.AS**

To be admitted to a college of dentistry, a student should have a minimum of two years of work in liberal arts. Course selections should include strong emphasis in Chemistry, Physics and Biology. The Dental Aptitude Test usually is required of an applicant for admission to dental school.

**Semester One**

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 15**

**Semester Two**

| | | |
|---|---|---|
| BIS 151 ◊# | Principles of Biology II | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |

**Subtotal: 17**

**Semester Three**

| | | |
|---|---|---|
| MAT 170 ◊# | Elementary Statistics | 4 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |
| | Science elective | 5 |

**Subtotal: 15**

**Semester Four**

| | | |
|---|---|---|
| | General education/Humanities | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Science Electives | 10 |

**Subtotal: 16**

**(Optional) Semester Five or Summer Semester**

| | | |
|---|---|---|
| | Science elective | 5 |

*General education/Social and Behavioral Science, General education/Fine Arts, General education/Humanities: Social/Behavior Science courses need to be chosen from two different disciplines. One course from Social/Behavior Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an * in the general education lists.*

**Recommended Science Electives:**

Science electives are generally prerequisites for admission for most programs. Recommend taking as a sequence, e.g. CHM 234◊/CHM 235◊.

| | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| CHM 132 ◊# | Elementary Organic Chemistry | 5 |
| CHM 234 ◊# | Organic Chemistry I | 5 |
| CHM 235 ◊# | Organic Chemistry II | 5 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| PHY 102 ◊# | General Physics (Electricity, Magnetism, Optics & Modern Physics) | 5 |

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

*Note: All program required courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Students generally choose a major with a strong science foundation. Meet with the curriculum counselor for specific transfer school recommendations.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Pre-Engineering, Associate in Science

**Curriculum SCI.EGR.AS**

Engineers use analytical and technical tools to provide creative yet economic solutions to problems. Degreed engineers have been consistently in demand, commanding the highest starting salaries among college graduates.

Students should note that four-year colleges and universities vary in specific course and transfer requirements. Therefore, it is important that in selecting Triton courses, students should consult a Triton counselor, as well as the catalog and/or admissions advisor at the senior institution to which transfer is intended.

**Semester One**

| | | |
|---|---|---|
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 16**

**Semester Two**

| | | |
|---|---|---|
| MAT 133 ◊# | Calculus & Analytic Geometry II | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Humanities | 3 |
| | General education/Life Science | 4 |

**Subtotal: 15**

**Semester Three**

| | | |
|---|---|---|
| CIS 195 ◊# | Programming for Engineers | 3 |
| MAT 235 ◊# | Calculus & Analytic Geometry III | 5 |
| PHY 106 ◊# | General Physics (Mechanics) | 4 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

**Subtotal: 15**

**Semester Four**

| | | |
|---|---|---|
| MAT 341 ◊# | Differential Equations | 3 |
| PHY 107 ◊# | General Physics (Electricity, Magnetism, and Thermodynamics) | 4 |
| | General education/Fine Arts | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 15**

*General education/Social and Behavioral Science, General education/Humanities, General education/Fine Arts: Social/Behavior Science courses need to be chosen from two different disciplines. One course from Social/Behavior Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an * in the general education lists.*

**(Optional) Semester Five or Summer Semester**

| | | |
|---|---|---|
| PHY 108 ◊# | General Physics (Waves, Optics, Relativity & Quantum Mechanics) | 4 |

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

*Note: All program required courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Students generally choose a major with a strong science foundation. Meet with the curriculum counselor for specific transfer school recommendations.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Pre-Medicine, Associate in Science

**Curriculum SCI.MED.AS**

Students desiring admission to a college of medicine should have a Bachelor of Science or Bachelor of Arts degree or at least 90 semester hours of college work and be eligible for full senior status in college. Their chosen courses should have emphasis in Biology, Chemistry and Physics. The medical college admissions test is required by most medical schools.

**Semester One**

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 15**

**Semester Two**

| | | |
|---|---|---|
| BIS 151 ◊# | Principles of Biology II | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |

**Subtotal: 17**

**Semester Three**

| | | |
|---|---|---|
| MAT 170 ◊# | Elementary Statistics | 4 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |
| | Science elective | 5 |

**Subtotal: 15**

**Semester Four**

| | | |
|---|---|---|
| | General education/Humanities | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Science Electives | 10 |

**Subtotal: 16**

*General education/Social and Behavioral Science: Social/Behavior Science courses need to be chosen from two different disciplines. One course from Social/Behavior Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.*

*General education/Social and Behavioral Science recommend taking SOC 100◊ and PSY 100◊.*

**(Optional) Semester Five or Summer Semester**

| | | |
|---|---|---|
| | Science elective | 5 |

**Recommended Science Electives:**

Science electives are generally prerequisites for admission for most programs. Recommend taking as a sequence, e.g. CHM 234◊/CHM 235◊.

| | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |

| | | |
|---|---|---|
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| CHM 234 ◊# | Organic Chemistry I | 5 |
| CHM 235 ◊# | Organic Chemistry II | 5 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| PHY 102 ◊# | General Physics (Electricity, Magnetism, Optics & Modern Physics) | 5 |

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

*Note: All program required courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Students generally choose a major with a strong science foundation. Meet with the curriculum counselor for specific transfer school recommendations.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

## Pre-Nursing, Associate in Science

**Curriculum SCI.NUR.AS**

A student who plans to get a Bachelor of Science degree with a major in Nursing may take the first and/or second years of work in Liberal Arts and should be careful especially in selecting Science courses. *This is meant for non-Triton majoring nursing students seeking admission to another 4 year institution nursing program.*

**Semester One**

| | | |
|---|---|---|
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 101 ◊# | Quantitative Literacy | 3 |
| | OR | |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |

**Subtotal: 14**

**Semester Two**

| | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| EDU 206 ◊# | Human Growth and Development | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | Nursing Electives | 2-3 |

**Subtotal: 15-16**

**Semester Three**

| | | |
|---|---|---|
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| | General education/Humanities | 3 |
| | Nursing Electives | 5-6 |

**Subtotal: 16-17**

**Semester Four**

| | | |
|---|---|---|
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| | General education/Fine Arts | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Nursing Electives | 2-3 |

**Subtotal: 16-17**

*Social/Behavior Science needs to be outside of Psychology. One course from Social/Behavior Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.*

**Recommended Electives:**

| | | |
|---|---|---|
| CHM 132 ◊# | Elementary Organic Chemistry | 5 |
| | OR | |
| CHM 141 ◊# | General Chemistry II | 5 |
| HTH 120 ◊ | Nutrition Science | 3 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| MAT 110 ◊# | College Algebra | 5 |
| PHL 103 ◊ | Ethics | 3 |

*CHM 132◊, HTH 120◊, MAT 110◊, PHL 103◊: Required by some schools.*

*CHM 141◊: Some schools require (CHM 110◊ or CHM 140◊ and MAT 110◊ prerequisite).*

*HTH 281◊: Certification is required for many clinicals.*

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

*Note: All program required courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Students generally choose a major with a strong science foundation. Meet with the curriculum counselor for specific transfer school recommendations.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Pre-Nutrition/Dietetics, Associate in Science

**Curriculum SCI.NTR.AS**

Students interested in being a nutritionist or dietician must complete a bachelor's degree in nutrition or dietetics within a CADE-accredited supervised practice program and must successfully pass the Commission on Dietetic Registration (CDR) examination. Students can take this associate degree and then transfer to a university to complete their degree in dietetics or nutrition.

Students should note that four-year colleges and universities vary in specific course and transfer requirements. Therefore, it is important that in selecting Triton courses, students should consult a Triton counselor, as well as the catalog and/or admissions advisor at the senior institution to which transfer is intended.

**General Education Requirements:**

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 124 ◊# | Finite Mathematics | 3 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| PHL 101 ◊ | Introduction to Philosophy | 3 |
| PHL 105 ◊ | World Religions | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

**Program Requirements:**

| | | |
|---|---|---|
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| HTH 120 ◊ | Nutrition Science | 3 |
| | Program electives | 3 |

**Optional fifth semester or summer school:**

| | | |
|---|---|---|
| CHM 234 ◊# | Organic Chemistry I | 5 |
| | Program electives | 3 |

**Program electives (select one):**

| | | |
|---|---|---|
| BUS 200 ◊ | Introduction to Human Resource Management | 3 |
| CHM 132 ◊# | Elementary Organic Chemistry | 5 |
| HTH 202 ◊ | Culture and Food | 3 |
| PSY 207 ◊# | Health Psychology | 3 |

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

**Choose a Social and Behavioral Science elective that meets the human diversity requirement.*

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Pre-Occupational Therapy, Associate in Science

**Curriculum SCI.THR.AS**

The first two years of occupational therapy can be taken primarily in liberal arts with some specialization according to the requirements stated in the four-year college catalog.

**Semester One**

| | | |
|---|---|---|
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |

**Subtotal: 16**

**Semester Two**

| | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| CHM 132 ◊# | Elementary Organic Chemistry | 5 |
| | OR | |
| CHM 141 ◊# | General Chemistry II | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | General education/Fine Arts | 3 |

**Subtotal: 15**

*CHM 140◊, CHM 132◊, CHM 141◊: Chemistry requirement varies by transfer school.*

**Semester Three**

| | | |
|---|---|---|
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities | 3 |
| | Electives | 3 |

**Subtotal: 17**

**Semester Four**

| | | |
|---|---|---|
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| | General education/Social and Behavioral Science | 3 |
| | Electives | 3-5 |

**Subtotal: 15-17**

*Social/Behavior Science courses need to be chosen from two different disciplines. One course from Social/Behavior Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.*

*SOC 100◊ or ANT 103◊ are Social and Behavioral Science*

*recommended electives.*

**Recommended Electives:**

| | | |
|---|---|---|
| EDU 206 ◊# | Human Growth and Development | 3 |
| PHY 102 ◊# | General Physics (Electricity, Magnetism, Optics & Modern Physics) | 5 |
| PSY 238 ◊# | Abnormal Psychology | 3 |

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

*Note: All program required courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Students generally choose a major with a strong science foundation. Meet with the curriculum counselor for specific transfer school recommendations.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

## Pre-Optometry, Associate in Science

**Curriculum SCI.OPT.AS**

Admittance to a college of optometry requires a minimum of 60 semester hours and a minimum Grade Point Average of 2.50 for all college courses attempted.

These courses should emphasize Biology, Chemistry and Mathematics. Automatic admission is not implied by the attainment of the minimum requirements set forth in the program.

**Semester One**

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |

**Subtotal: 15**

**Semester Two**

| | | |
|---|---|---|
| BIS 151 ◊# | Principles of Biology II | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |

**Subtotal: 17**

**Semester Three**

| | | |
|---|---|---|
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |
| | Science Electives | 10 |

**Subtotal: 16**

**Semester Four**

| | | |
|---|---|---|
| MAT 170 ◊# | Elementary Statistics | 4 |
| | General education/Humanities | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Science elective | 5 |

**Subtotal: 15**

*Social/Behavior Science courses need to be chosen from two different disciplines. One course from Social/Behavior Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists.*

**Recommended Science Electives**

Science electives are generally prerequisites for admission for most programs, recommend taking as a sequence.

| | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| CHM 234 ◊# | Organic Chemistry I | 5 |
| CHM 235 ◊# | Organic Chemistry II | 5 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| PHY 102 ◊# | General Physics (Electricity, Magnetism, Optics & Modern Physics) | 5 |

*BIS 101◊: Prerequisite for BIS 240◊.*

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

*Note: All program required courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Students generally choose a major with a strong science foundation. Meet with the curriculum counselor for specific transfer school recommendations.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Pre-Pharmacy, Associate in Science

**Curriculum SCI.PHR.AS**

One year of this curriculum may be taken in liberal arts and the next four years in a College of Pharmacy. Chemistry and Mathematics courses should be included in chosen courses.

| **Semester One** | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Humanities | 3 |
| | **Subtotal: 15** | |

| **Semester Two** | | |
|---|---|---|
| BIS 151 ◊# | Principles of Biology II | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | **Subtotal: 17** | |

| **Semester Three** | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| CHM 234 ◊# | Organic Chemistry I | 5 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |
| | **Subtotal: 15** | |

*BIS 101◊: Prerequisite for BIS 240◊.*

| **Semester Four** | | |
|---|---|---|
| CHM 235 ◊# | Organic Chemistry II | 5 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| | General education/Humanities | 3 |
| | General education/Social and Behavioral Science | 3 |
| | **Subtotal: 15** | |

*General education/Humanities, General education/Fine Arts, General education/Social and Behavioral Science: Social/Behavior Science courses need to be chosen from two different disciplines. One course from Social/Behavior Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists. PSY 100◊ or SOC 100◊ is recommended for the Social and Behavioral Science requirement.*

| **Recommended Courses (required for pharmacy school application):** | | |
|---|---|---|
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| PHY 102 ◊# | General Physics (Electricity, Magnetism, Optics & Modern Physics) | 5 |

*PHY 102◊: Required by most programs.*

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

*Note: All program required courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Students generally choose a major with a strong science foundation. Meet with the curriculum counselor for specific transfer school recommendations.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Pre-Veterinary, Associate in Science

**Curriculum SCI.VET.AS**

A student usually should present 60 semester hours of acceptable college credit to be admitted to a College of Veterinary Medicine. These courses may be taken in liberal arts and should include emphasis in Chemistry, Biology and Physics.

| **Semester One** | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social and Behavioral Science | 3 |
| | **Subtotal: 15** | |

| **Semester Two** | | |
|---|---|---|
| BIS 151 ◊# | Principles of Biology II | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | **Subtotal: 17** | |

| **Semester Three** | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Fine Arts | 3 |
| | Science Electives | 5 |
| | **Subtotal: 15** | |

| **Semester Four** | | |
|---|---|---|
| | General education/Humanities | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Science Electives | 10 |
| | **Subtotal: 16** | |

*General education/Social and Behavioral Science, General education/Fine Arts, General education/Humanities, PHY 102◊: Social/Behavior Science courses need to be chosen from two different disciplines. One course from Social/Behavior Science, Humanities or Fine Arts needs to meet the human diversity requirement. The courses meeting this requirement have an (*) in the general education lists. PSY 100◊ or SOC 100◊ is recommended for the Social and Behavioral Science requirement.*

**(Optional)Semester Five or Summer Semester**

**Science Electives: (four to five semester credits)**

Science electives are generally prerequisites for admission for most programs, recommend taking as a sequence.

| | | |
|---|---|---|
| BIS 222 ◊# | Principles of Microbiology | 4 |
| CHM 234 ◊# | Organic Chemistry I | 5 |
| CHM 235 ◊# | Organic Chemistry II | 5 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| PHY 102 ◊# | General Physics (Electricity, Magnetism, Optics & Modern Physics) | 5 |

*(Select courses that meet the BS requirements of your transfer school.)*

**General education requirements:**

AS degree (p. 76)

**Subtotal: 37-41**

**Pre-profession courses or other electives for AS degree**

**Subtotal: 19-23**

*Note: All program required courses require an earned grade of 'C' or higher, in order to pass onto the next course in the program sequence.*

This is a generic outline of courses for this program of study. Requirements may vary based on undergraduate major and/or chosen transfer school. Students generally choose a major with a strong science foundation. Meet with the curriculum counselor for specific transfer school recommendations.

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Associate in General Studies

# Associate in General Studies Degree Requirements

**Curriculum GEN.GEN.AGS (L224A)**

The Associate in General Studies (AGS) degree is intended for students whose educational goals will not be adequately met by the other associate degree programs. The AGS is awarded in individualized curricula that has been agreed upon by the student and counselor.

**Communications (6 semester credits)**

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |

***Note: Grade of "C" or better is an IAI requirement for RHT 101◊ and RHT 102◊.***

**Humanities (3 semester credits)**

**Social Science (3 semester credits)**

**Math/Science (3 semester credits)**

**General education electives (9 semester credits)**

*(To be selected from a combination of SPE 101◊; Social Science; Humanities; Mathematics; and/or Science course offerings)*

*(Select courses that meet the BS requirements of your transfer college.)*

**General education for AGS degree requirements (24 semester credits)**

**Total Credit Hours: 64**

Students who wish to discuss pursuing the AGS degree must contact the counselor for the Associate in General Studies degree program. This contact should be made when the student first enrolls for classes or upon changing his/her educational goals.

The Associate in General Studies degree is not considered to be a transferable degree. The student should contact the Counseling department to determine the transferability of part or all the Associate in General Studies degree. The Counseling department may be contacted at (708) 456-0300, Ext. 3588.

# Applied Science Programs

Applied Science Programs at Triton provide occupational preparation in a range of careers. The programs are designed to prepare students for direct or upgraded employment following Triton College graduation. In many cases, the areas of specialization are transferable to four-year colleges. The programs are listed alphabetically.

Courses offered in Applied Science are college-level and designed primarily for career preparation and in some cases transfer to particular colleges and universities in specific majors. Students should contact the institution to which they intend to transfer or consult with a Triton counselor or Triton's Transfer Center regarding the transferability of career-education courses.

Associate in Applied Science degrees, career certificates and advanced certificates are awarded for the successful completion of requirements.

Some programs, most notably those in Nursing and Allied Health, have special requirements for enrollment. Students must attend a scheduled information session and meet with the program coordinator to be considered for many of these programs. Please call (708) 456-0300, Ext. 3545, for dates and times.

A maximum of six semester hours of physical education activity courses (PED courses numbered 150 and below) may be selected as electives to fulfill graduation requirements.

College success courses may not be used to meet graduation requirements.

The Applied Science curricula follow with curriculum numbers related to degree, certificate and advanced certificate programs. Students must use these numbers when registering for classes. All degree programs qualify for the Associate in Applied Science degree.

### Human Diversity Requirement

Illinois Public Act 87-581 requires that degree-seeking students meet this requirement. This can be accomplished by successful completion of all the required general education courses in the AAS Degree.

### Notes for this section:

**# Prerequisites/Corequisites:** See the course description section of this catalog to ensure course prerequisites or corequisites are met prior to enrolling in courses. Students may petition for waiver of course prerequisites/corequisites if they believe they have comparable experience or completed course work with similar content. Counselors can assist in this process.

◊ **See Articulated Courses** (p. 44) for additional information.

**Degree graduation requirements:** In addition to fulfilling general education and program requirements, students must maintain a minimum grade-point average, meet public-law and residency requirements and complete proper filing procedures to graduate. For information, see degree graduation requirements in the "Degrees and Certificates" section of this catalog and the general education requirements for the Associate in Applied Science Degree at the beginning of the "Applied Science Programs" section. Also see your counselor for assistance.

**Additional certificate requirements:** In addition to fulfilling certificate program requirements, students must maintain a

minimum grade-point average, meet residency requirements and complete proper filing procedures to receive their diplomas. For information, see certificate graduation requirements in the "Degrees and Certificates" section of this catalog. Also see your counselor for assistance.

## Applied Science Programs Offered

### Curriculum

**Accounting/Finance**
Degree, BUS.ACC.AAS (C206A)
Certificate — Assistant, BUS.ACC.CERT (C306A)
Certificate — Bookkeeping, BUS.BKK.CERT (C416A)
Certificate — Certified Public Accountant Pathway, BUS.CPA.CERT (C501A)

**Architecture**
Degree, ARC.ARC.AAS (C248A)
Certificate — Architectural Technology, ARC.ARC.CERT (C448T)
Certificate — Architectural Design, ARC.STD.CERT (C448X)
Advanced Certificate — Building Information Modeling/BIM ARC.BMA.CERT (C548M), (formerly ARC.ABM.CERT) (C448M)

**Automotive: General Motors/AC Delco**
Degree, AUT.GMC.AAS (C247C)

**Automotive Service Department Management**
Degree, AUT.SDM.AAS (C247E)

**Automotive Technology**
Degree, AUT.AUT.AAS (C247D)
Certificate, AUT.AUT.CERT (C347C)
Certificate — Brake and Suspension, AUT.BRK.CERT (C447B)
Certificate — Engine Performance, AUT.EGP.CERT (C447C)
Certificate — Engine Repair, AUT.ENR.CERT (C447D)
Certificate — Transmission Repair, AUT.TRN.CERT (C447E)

**Baking and Pastry**
*(See Hospitality Industry Administration Culinary Arts)*

**Biotechnology Laboratory Technician**
Degree, BIS.BTC.AAS (C226B)

**Building Information Modeling (BIM)**
*(See Construction Technology)*

**Business-Management**
Degree, BUS.MGT.AAS (C206B)
Certificate, BUS.MGT.CERT (C306B)
Certificate — Entrepreneurship, BUS.ETR.CERT (C406D)
Certificate — Financial Services, BUS.FSV.CERT (C306K)

**Business-Office Careers**
Certificate — Business Support Specialist, BUS.SUP.CERT (C307D)
Certificate — Medical Administrative Assistant, BUS.MEA.CERT (C407K)
Certificate — Office Assistant, BUS.OFA.CERT (C407D)

**Certified Medical Assistant**
Certificate, CMA.CMA.CERT (C318A)

**Computer Information Systems**
Degree, CIS.CIS.AAS (C207A)
Degree — Cybersecurity and Information Assurance, CIS.CYB.AAS (C207S)
Certificate — Cybersecurity and Information Assurance, CIS.CYB.CERT (C407S)
Certificate — Cloud Computing Systems, CIS.CLD.CERT (C407U)
Certificate — Database Systems, CIS.DBS.CERT (C407V)
Certificate — Geographic Information Systems, CIS.GEO.CERT (C407X)
Certificate — Mobile, Web & Data Science Application Development, CIS.MWB.CERT (C407T)
Certificate — Office Applications-Prep for Microsoft Certification, CIS.OAP.CERT (C407O)
Certificate — Systems Administration, CIS.SYA.CERT (C407Y)
Certificate — Web Technologies, CIS.WEB.CERT (C407J)
Advanced Certificate — Windows Programming, CIS.WPA.CERT (C515C)
Degree — Computer Network and Telecommunications Systems Degree, CIS.CNT.AAS (C207F)
Certificate — A+ Microcomputer Technician, CIS.APL.CERT (C407N)
Certificate — Network Management, CIS.NTM.CERT (C407M)

**Construction Technology (formerly Building Information Modeling (BIM)**
Degree, ARC.IBC.AAS (C235A)
Certificate — Carpentry, ARC.CPT.CERT (C446G)
Certificate — Plumbing, ARC.PLM.CERT (C446H)

**Criminal Justice Administration**
Degree, CJA.CJA.AAS (C243A)
Certificate — Corrections, CJA.COR.CERT (C443A)
Certificate — Law Enforcement, CJA.LAE.CERT (C443B)
Certificate — Private Security, CJA.PST.CERT (C443C)

**Early Childhood Education**
Degree — Credential Transfer Pathway Level IV, EDU.ECE.AAS (C220A)
Certificate — Early Childhood Credential Continuing Pathway Certificate Level III, EDU.ECE.CERT (C320A)
Certificate — Early Childhood Career Pathway Level II, ECE.CDA.CERT (C420C)
Certificate — Infant/Toddler Care, EDU.ITC.CERT (C420B)

Advanced Certificate — Early Childhood Administration & Management, EDU.CCA.CERT (C520A)

**Paraprofessional Educator Associate**
Degree, EDU.PPR.AAS (C220B)
Certificate — Teacher Aide, EDU.AID.CERT (C320C)

**Engineering Technology**
Degree, Mechanical Design, ENT.ENT.AAS (C248V)
Certificate — Design, ENT.DSN.CERT (C348B)
Certificate – Electrical, ENT.ELC.CERT (C446I)
Certificate — Fabrication, ENT.FAB.CERT (C448S)
Certificate — Welding, ENT.WEL.CERT (C448Y)
Degree — Mechatronics, ENT.MEC.AAS (C249V)
Certificate — Mechatronics, ENT.MEC.CERT (C448V, formerly C548F)
Advanced Certificate — CAD, ENT.CAD.CERT (C548E)

**Environmental Science**
Degree, SCI.EVN.AAS (C226A)

**Eye Care Assistant**
Certificate, OPH.EYE.CERT (C451A)

**Facilities Engineering Technology**
Degree, CE.FET.AAS (C280A)
Certificate, CE.FET.CERT (C380A)
Certificate — Critical Systems Maintenance, CE.CSM.CERT (C381A)
Certificate — Healthcare Facilities Maintenance, CE.HTH.CERT (C382A)
Certificate — Hospitality Facilities Maintenance, CE.HOS.CERT (C384A)
Certificate — Mobile Maintenance, CE.MOM.CERT (C383A)

**Fire Science**
Degree, FIR.FIR.AAS (C243B)
Certificate, FIR.FIR.CERT (C343A)
Certificate – Basic Operations Firefighter, FIR.BOP.CERT (C444D)
Certificate — Company Fire Officer, FIR.CFO.CERT (C444E)
Advanced Certificate — Fire Officer, FIR.AFO.CERT (C444F)

**Emergency Management**
Degree, EMP.EMP.AAS (C244A)
Certificate, EMP.EMP.CERT (C344A)

**Emergency Medical Technician**
Certificate, EMS.EMS.CERT (C444A)

**Emergency Medical Responder**
Certificate, EMS.EMR.CERT (C444B)
Certificate, Public Safety Dispatcher, EMS.EMS.CERT (C444A)

**Horticulture**
Degree, HRT.HRT.AAS (C201A)
Certificate — Grounds Maintenance, HRT.GRM.CERT (C401C)
Certificate — Landscape Design, HRT.LND.CERT (C401A)
Degree — Sustainable Agriculture Technology, HRT.SAG.AAS (C201E)
Certificate – Sustainable Agroecology, HRT.AGR.CERT (C401F)
Certificate — Sustainable Food Production, HRT.SFD.CERT (C401E)
Degree — Sustainable Landscape Practices, HRT.SUS.AAS (C201F)
Certificate — Sustainable Landscape Practices, HRT.SUS.CERT (C401D)

**Hospitality Industry Administration Culinary Arts**
Degree, HIA.CUL.AAS (C206L)
Certificate — Culinary Training, HIA.CUL.CERT (C420A)

**Hospitality Industry Administration Baking and Pastry**
Degree, HIA.BKG.AAS (C206M)
Certificate, HIA.BKG.CERT (C306H)
Certificate — Beverage Management, HIA.BVM.CERT (C306J)
Certificate — Bread Baking, HIA.BRD.CERT (C406N)
Certificate — Cake Decoration, HIA.CKD.CERT (C406M)

**Hospitality Industry Administration Hotel/Motel Management**
Degree, HIA.HMM.AAS (C206H)
Certificate, HIA.HMM.CERT (C406F)

**Hospitality Industry Administration Restaurant Management**
Degree, HIA.RST.AAS (C206F)
Certificate, HIA.RST.CERT (C306C)

**Human Resource Management**
Degree, BUS.HRM.AAS (C206J)
Certificate, BUS.HRM.CERT (C306F)

**Independent Building Contractor**
*(see Construction Technology)*

**Personal Trainer**
Certificate, HSE.PTR.CERT (C336A)
Advanced Certificate — Clinical Exercise Specialist Certification HSE.XSP.CERT (C536A)
Advanced Certificate — Group Fitness Instructor, HSE.GPT.CERT (C536C)
Advanced Certificate — Sports Conditioning, HSE.SCP.CERT (C536B)

**Renewable Energy Technology**
Degree, BIS.REN.AAS (C260A)

**Surgical Technology**
*(See Surgical Technology Degree)*

**Visual Communication—Graphic Design**
Degree, VIC.VIC.AAS (C248C)
Certificate, VIC.GRD.CERT (C348C)
Certificate — Social Media Design, VIC.DGM.CERT (C448U)
Degree — Digital Photography, VIC.DPH.AAS (C249C)
Certificate — Digital Photography, VIC.DPH.CERT (C348O, formerly C448O)
Certificate — Layout and Design, VIC.LDS.CERT (C448W)

**Welding**
*(see Engineering Technology)*

## Selective Admission Health Programs Offered

**Curriculum**

**Diagnostic Medical Sonography**
Degree, DMS.DMS.AAS (C217E)
Certificate, DMS.DMS.CERT (C317E)

**Nuclear Medicine Technology**
Degree, NUM.NUM.AAS (C217B)

**Nurse Assistant**
Certificate — NAS.NAS.CERT (C417E)

**Nursing**
Degree, NUR.NUR.AAS (C218A)

**Ophthalmic Technician**
Degree, OPH.OPH.AAS (C217I)

**Radiologic Technology**
Degree, RAS.RAS.AAS (C217C)

**Sterile Processing Technician**
Certificate — SRT.SPT.CERT (C417G)

**Surgical Technology**
Degree, SRT.SRT.AAS (C216C)

## Associate in Applied Science Degree Requirements

The general education requirements for the Associate in Applied Science degree are listed below. The specific requirements for each career-education curriculum are listed on the pages that follow that section of the catalog.

***Note: Students may be required to enroll in COL 102◊ as a condition for admission or re-admission to certain programs at the college.***

**Communications**

**The Communications requirement varies by curriculum.**

**(six semester hours total are required for graduation; department choice of RHT 101◊ and RHT 102◊ or RHT 101◊ and SPE 101◊ option)**

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | AND | |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | AND | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

***Note: Grade of "C" or better is an IAI requirement for RHT 101◊ and RHT 102◊.***

**Social and Behavioral Sciences or Humanities or Fine Arts**

**(six semester hours total are required for graduation;** department choice whether courses are taken from each discipline or two courses from the same discipline)

**Anthropology:**

| | | |
|---|---|---|
| ANT 101 ◊ | Introduction to Anthropology | 3 |
| ANT 102 ◊ | Introduction to Biological Anthropology | 3 |
| ANT 103 ◊ | Cultural Anthropology | 3 |
| ANT 105 ◊ | Digging Into Archaeology | 3 |
| ANT 150 ◊ | Cultural Contexts | 3 |

**Education:**

| | | |
|---|---|---|
| ECE 110 ◊ | Early Child Development | 3 |

**Economics:**

| | | |
|---|---|---|
| ECO 100 ◊ | Principles of Economics | 3 |
| ECO 102 ◊ | Macroeconomics | 3 |
| ECO 103 ◊ | Microeconomics | 3 |
| ECO 105 ◊ | Consumer Economics | 3 |

**Geography:**

| | | |
|---|---|---|
| GEO 104 ◊ | Contemporary World Cultures | 3 |
| GEO 105 ◊ | Economic Geography | 3 |
| GEO 106 ◊ | Regional Geography of Africa and Asia | 3 |

**History:**

| | | |
|---|---|---|
| HIS 121 ◊ | History of Western Civilization I | 3 |
| HIS 122 ◊ | History of Western Civilization II | 3 |
| HIS 141 ◊ | World History I | 3 |

| | | |
|---|---|---|
| HIS 142 ◊ | World History II | 3 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| HIS 156 ◊ | African History | 3 |
| HIS 171 ◊ | History of Latin America I | 3 |
| HIS 172 ◊ | History of Latin America II | 3 |
| HIS 192 ◊ | History of Asia and the Pacific II | 3 |
| **Political Science:** | | |
| PSC 120 ◊ | Principles of Political Science | 3 |
| PSC 150 ◊ | American National Politics | 3 |
| PSC 151 ◊ | American State and Urban Politics | 3 |
| PSC 184 ◊ | Global Politics | 3 |
| **Psychology:** | | |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| PSY 105 ◊ | Personal Applications of Psychology | 3 |
| PSY 201 ◊# | Introduction to Social Psychology | 3 |
| PSY 216 ◊# | Child Psychology | 3 |
| PSY 222 ◊# | Adolescent Psychology | 3 |
| PSY 228 ◊# | Psychology of Adulthood & Aging | 3 |
| **Sociology:** | | |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| SOC 120 ◊# | Social Patterns of Courtship & Marriage | 3 |
| SOC 131 ◊ | Social Problems | 3 |
| SOC 225 ◊# | Racial & Cultural Minorities | 3 |
| **Social Science:** | | |
| SSC 190 ◊ | Contemporary Society | 3 |

**Humanities or Fine Arts**

(department may specify which discipline the course is taken from or may specify a specific course)

| | | |
|---|---|---|
| **Architecture:** | | |
| ARC 210 ◊# | History of Architecture I | 3 |
| **Art:** | | |
| ART 110 ◊ | Looking at Art | 3 |
| ART 111 ◊ | Ancient to Medieval Art | 3 |
| ART 112 ◊ | Renaissance to Modern Art | 3 |
| ART 114 ◊ | Survey of Asian Art | 3 |
| **English:** | | |
| ENG 101 ◊# | Introduction to Poetry | 3 |
| ENG 102 ◊# | Introduction to Drama | 3 |
| ENG 103 ◊# | Introduction to Fiction | 3 |
| ENG 105 ◊# | World Literature | 3 |
| ENG 113 ◊# | Classic American Authors Pre-Civil War | 3 |
| ENG 114 ◊# | Classic American Authors Civil War to the Present | 3 |
| ENG 170 ◊# | Introduction to Children's Literature | 3 |
| ENG 231 ◊# | Introduction to Shakespeare | 3 |
| **Foreign Language:** | | |
| | (any CHN, ITL, SPN course) | 2-4 |
| **Humanities:** | | |
| HUM 101 ◊ | The Popular Arts | 3 |
| HUM 102 ◊ | Mass Media and Culture | 3 |
| HUM 104 ◊ | Humanities Through the Arts | 3 |
| HUM 120 ◊ | Humanities: The Worker in America | 1 |
| HUM 124 ◊ | Professional Ethics | 1 |
| HUM 125 ◊ | The Individual & Technology | 1 |
| HUM 126 ◊ | Modern Business Ethics | 1 |
| HUM 151 ◊ | Great Books of the West I | 3 |
| HUM 152 ◊ | Great Books of the West II | 3 |
| HUM 165 ◊ | Introduction to the Latin American Experience | 3 |
| HUM 170 ◊# | Introduction to Women's and Gender Studies | 3 |
| HUM 296 ◊ | Special Topics in Humanities | 1 - 4 |
| IDS 101 ◊ | The Arts in Western Culture I | 3 |
| IDS 102 ◊ | The Arts in Western Culture II | 3 |
| PHL 113 ◊ | Environmental Ethics | 3 |
| **Mass Communication:** | | |
| MCM 150 ◊ | Film History and Appreciation | 3 |
| MCM 151 ◊ | Cinema Appreciation | 3 |
| MCM 152 ◊ | Cinema History | 3 |
| **Music:** | | |
| MUS 110 ◊ | Listening to Music | 3 |
| MUS 215 ◊# | Introduction to Music History | 3 |
| MUS 216 ◊ | Music in America | 3 |
| **Philosophy:** | | |
| PHL 101 ◊ | Introduction to Philosophy | 3 |
| PHL 102 ◊ | Logic | 3 |
| PHL 103 ◊ | Ethics | 3 |
| PHL 105 ◊ | World Religions | 3 |
| PHL 106 ◊ | Biomedical Ethics | 3 |
| **Speech:** | | |
| SPE 130 ◊ | Introduction to Theatre | 3 |
| **Visual Communication:** | | |
| VIC 160 ◊ | History of Photography | 3 |

**Physical or Life Sciences or Mathematics**

(**three semester hours total are required for graduation;** review specific program requirements for the curriculum selected)

## Graduation Requirements:

| | |
|---|---|
| Total semester hours required in **general education** toward the AAS degree | 15 |
| Total semester hours in program **core courses and electives** required toward the AAS degree | 45 |
| **Total semester hours** required toward the AAS degree | 60 |

# Accounting/Finance

## Accounting/Finance, Associate in Applied Science

(formerly Accounting)

**Curriculum BUS.ACC.AAS (C206A)**

The Accounting/Finance curriculum includes the study of theory and practice for accounting procedures, cost accounting, income tax procedures and the application of data processing to accounting and financial problems.

Provides the minimum accounting requirements needed to enter the accounting profession as an accounting clerk or as an entry-level member of an accounting staff in many small to medium-sized businesses. The program also will enable the student to pursue an associate in applied science degree in accounting.

While the accounting curriculum is designed with the career student in mind, many of the courses contained in it will transfer to a four-year college.

Students successfully completing the associate in applied science degree program will have developed knowledge and skills in the following areas:

- analyze and record the transactions of a business entity applying generally accepted accounting principles;
- perform all of the steps of the complete accounting cycle;
- understand theory and practical applications of various accounting systems, such as costing systems;
- journalize the entries of a job order costing and process costing system;
- compute the variances in an actual versus standard cost system;
- analyze financial statements in comparative forms, common-size forms and trend percentages; and
- use financial ratios for various users.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| ACC 101 ◊ | Financial Accounting | 4 |
| BUS 129 ◊ | Personal Finance | 3 |
| BUS 141 ◊ | Introduction to Business | 3 |
| BUS 146 ◊ | Business Computations | 3 |
| | OR | |
| MAT 110 ◊# | College Algebra | 5 |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| | OR | |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |

**Subtotal: 16-18**

**Semester Two**

| | | |
|---|---|---|
| ACC 105 ◊# | Managerial Accounting | 3 |
| BUS 161 ◊ | Business Law I | 3 |
| CIS 161 ◊# | Microsoft Excel II | 3 |
| ECO 102 ◊ | Macroeconomics | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |

**Subtotal: 15**

**Semester Three**

| | | |
|---|---|---|
| ACC 251 ◊# | Intermediate Accounting I | 3 |
| ACC 266 ◊# | Cost Accounting | 3 |
| BUS 212 ◊# | Principles of Finance | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3-4 |

**Subtotal: 15-16**

**Semester Four**

| | | |
|---|---|---|
| ACC 252 ◊# | Intermediate Accounting II | 3 |
| ACC 257 ◊# | Principles of Auditing | 3 |
| BUS 149 ◊ | Elementary Statistics | 3 |
| | OR | |
| ECO 170 ◊# | Statistics for Business and Economics | 3 |
| BUS 262 ◊# | Business Law II | 3 |
| | Program electives | 3 |

**Subtotal: 15**

**Total Credit Hours: 61-64**

*See ACC course descriptions* (p. 180)*; BUS course descriptions* (p. 191)*; Humanities or Fine Arts General Education requirements* (p. 101).

*Program electives (3): Any ACC or BUS course.*

**For students intending to go directly into the workforce take BUS 146◊. (BUS 146◊ meets Triton's Mathematics and/or Science general education requirement.)*

***Note**: ECO 102◊ meets the Social or Behavioral Sciences general education requirement.*

**Coordinator:** Dr. William M. Griffin, Ext. 3579

# Accounting Assistant Certificate

(formerly Accounting Certificate)

**Curriculum BUS.ACC.CERT (C306A)**

For students seeking to enter or progress in the accounting profession beyond bookkeeping level, such as in the areas of accounts payable, accounts receivable, tax and general ledger support.

| | | |
|---|---|---|
| **Semester One** | | |
| ACC 101 ◊ | Financial Accounting | 4 |
| BUS 141 ◊ | Introduction to Business | 3 |
| BUS 161 ◊ | Business Law I | 3 |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| | **Subtotal:** | **13** |
| **Semester Two** | | |
| ACC 105 ◊# | Managerial Accounting | 3 |
| BUS 102 ◊ | Small Business Accounting | 3 |
| CIS 155 ◊ | Microsoft Excel I | 3 |
| | OR | |
| CIS 157 ◊ | Microsoft Access I | 3 |
| | **Subtotal:** | **9** |
| **Semester Three** | | |
| ACC 256 ◊# | Tax Accounting | 3 |
| BUS 188 ◊ | Business Writing | 3 |
| CIS 161 ◊# | Microsoft Excel II | 3 |
| | **Subtotal:** | **9** |
| | **Total Credit Hours:** | **31** |

*See ACC course descriptions* (p. 180)*; BUS course descriptions* (p. 191).

**Coordinator:** Dr. William M. Griffin, Ext. 3579

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/AccountingAssistant/52.0302-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Bookkeeping Certificate

**Curriculum BUS.BKK.CERT (C416A)**

The Bookkeeping Certificate includes the minimum business and accounting requirements for students seeking bookkeeper positions. Students will gain the necessary background in business and introductory accounting courses, and the ability to use business software applications most common in businesses. Graduates of this certificate may receive positions as a bookkeeper or other entry-level business, accounting or financial roles.

| | | |
|---|---|---|
| **Semester One** | | |
| ACC 101 ◊ | Financial Accounting | 4 |
| BUS 102 ◊ | Small Business Accounting | 3 |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| BUS 141 ◊ | Introduction to Business | 3 |
| CIS 155 ◊ | Microsoft Excel I | 3 |
| | **Subtotal:** | **16** |
| | **Total Credit Hours:** | **16** |

*See ACC course descriptions* (p. 180)*; BUS course descriptions* (p. 191)*, and CIS course description* (p. 196).

**Coordinator:** Dr. William M. Griffin, Ext. 3579

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/BookkeepingCertificate/52.0302-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Certified Public Accountant Pathway Advanced Certificate

**Curriculum BUS.CPA.CERT (C501A)**

To obtain the necessary qualifications to sit for the CPA (Certified Public Accountant) examination in Illinois, effective July 1, 2013, a candidate must have a total of 150 hours of acceptable college-level education, including at least a bachelor's degree. At least 30 of those 150 hours must be in accounting and an additional 24 hours must be in business courses, including business ethics. Most students with bachelor's degrees, even those with degrees in business and/or accounting, have less than the minimum acceptable qualifications in credit hours. Accordingly, this curriculum is for the students with bachelor's degrees who are seeking the necessary qualifications in order to sit for the CPA examination in Illinois. More details are available from the Illinois Board of Examiners. Upon completion of the certificate, the student should submit transcripts to the

Illinois Board of Examiners. (Fall 2018)

**Courses**

NOTE: Completion of both ACC 101◊ and ACC 105◊ are program prerequisites and must be taken less than ten years ago or approved by the coordinator.

| | | |
|---|---|---|
| ACC 251 ◊# | Intermediate Accounting I | 3 |
| ACC 252 ◊# | Intermediate Accounting II | 3 |
| ACC 255 ◊# | Advanced Accounting | 3 |
| ACC 256 ◊# | Tax Accounting | 3 |
| ACC 257 ◊# | Principles of Auditing | 3 |
| ACC 266 ◊# | Cost Accounting | 3 |
| ACC 270 ◊# | Corporate Tax Accounting | 3 |
| ACC 271 ◊# | Research Topics in Taxation | 1 |
| ACC 275 ◊# | Financial Accounting Research | 1 |
| BUS 161 ◊ | Business Law I | 3 |
| BUS 188 ◊ | Business Writing | 3 |
| PHL 103 ◊ | Ethics | 3 |

**Subtotal: 32**

**Total Credit Hours: 32**

*See ACC course descriptions* (p. 180) and *BUS course descriptions* (p. 191).

**Coordinator:** Dr. William M. Griffin, Ext. 3579

# Architecture

# Architecture, Associate in Applied Science

**Curriculum ARC.ARC.AAS (C248A)**

The goal of the Architecture curriculum is to help students develop the critical thinking, technical and visual and verbal communication skills needed to be successful in this industry. Sustainability and real world professional practices are covered throughout the curriculum, and it is designed to provide students with the skills necessary to transfer to a four-year college or university or obtain an entry-level position in architecture or a related field.

Having completed or taken courses in Architecture, students will be able to:

- demonstrate proficiency in software programs used in professional practice;
- draw and analyze construction documents;
- understand various construction technologies and how they work together to create a building;
- interpret owners' needs based on project requirements and budgetary limitations and develop solutions to meet those needs;
- express themselves creatively by solving multifaceted design problems;
- know their responsibility as part of a design team, including the role architects play in creating environmental sustainability; and
- have the opportunity to advance in their career and continue professional development through four-year transfer programs.

## Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| ARC 104 | Introduction to Architecture | 3 |
| ARC 110 ◊# | Materials, Methods and Sustainability I | 3 |
| ARC 189 ◊ | AutoCAD & 3D Computer Modeling | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social or Behavioral Sciences or Humanities or Fine Arts | 3 |

**Subtotal: 15**

**Semester Two**

| | | |
|---|---|---|
| ARC 109 ◊# | Design I | 4 |
| ARC 187 ◊# | Architectural Drawings & Models | 3 |
| ARC 220# | Materials, Methods & Sustainability II | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Social or Behavioral Sciences or Humanities or Fine Arts | 3 |

**Subtotal: 16**

*RHT 101◊, RHT 10◊2, SPE 101◊: Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Three**

| | | |
|---|---|---|
| ARC 171 ◊# | Design II | 4 |
| ARC 210 ◊# | History of Architecture I | 3 |
| ARC 261 ◊ | Revit | 4 |
| MAT 110 ◊# | College Algebra | 5 |
| | OR | |
| MAT 111 ◊# | Pre-Calculus | 5 |
| | OR | |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |

**Subtotal: 16**

*MAT 110◊, MAT 111◊ or MAT 131◊: Meets the Science and/or Mathematics general education requirement. Students intending to transfer should take MAT 131◊.*

**Semester Four**

| | | |
|---|---|---|
| ARC 214 ◊# | History of Architecture II | 3 |
| ARC 272 ◊# | Design III | 5 |
| ARC 280 ◊# | Materials, Methods & Sustainability III | 3 |
| COT 106 | Carpentry: Rough Carpentry<br>OR | 3 |
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |

**Subtotal: 14-16**

**Total Credit Hours: 61-63**

*See ARC course descriptions* (p. 183).

Students intending to transfer should take PHY 101◊. Students looking to enter the profession should take COT 106.

**Coordinator:** Frances Figg, Ext. 3129; email: francesfigg@triton.edu

# Architectural Technology Certificate

(formerly Architecture Certificate)

**Curriculum ARC.ARC CERT (C448T)**

The Architectural Technology Certificate is designed for students who wish to concentrate solely on technically-related courses. Graduates are prepared for entry-level positions with architecture, interior design or construction companies.

**Semester One**

| | | |
|---|---|---|
| ARC 104 | Introduction to Architecture | 3 |
| ARC 110 ◊# | Materials, Methods and Sustainability I | 3 |
| ARC 189 ◊ | AutoCAD & 3D Computer Modeling | 3 |
| ARC 261 ◊ | Revit | 4 |

**Subtotal: 13**

**Semester Two**

| | | |
|---|---|---|
| ARC 220# | Materials, Methods & Sustainability II | 3 |
| ARC 280 ◊# | Materials, Methods & Sustainability III | 3 |
| COT 106 | Carpentry: Rough Carpentry | 3 |

**Subtotal: 9**

**Total Credit Hours: 22**

*See ARC course descriptions* (p. 183)*; IBC course descriptions* (p. 240).

**Coordinator:** Frances Figg, Ext. 3129; email: francesfigg@triton.edu

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/ArchitecturalTechnologyCertificate/15.0303-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Architectural Design Certificate

(formerly Architectural Studies)

**Curriculum ARC.STD CERT (C448X)**

The Architectural Design Certificate provides students with the group of classes that focus on becoming a creative thinker and designer in the architecture industry. These classes are the core of most architectural curriculum at four-year colleges and university and the certificate will prepare you for transfer.

**Semester One**

| | | |
|---|---|---|
| ARC 104 | Introduction to Architecture | 3 |
| ARC 109 ◊# | Design I | 4 |
| ARC 189 ◊ | AutoCAD & 3D Computer Modeling | 3 |
| ARC 210 ◊# | History of Architecture I | 3 |

**Subtotal: 13**

**Semester Two**

| | | |
|---|---|---|
| ARC 171 ◊# | Design II | 4 |
| ARC 187 ◊# | Architectural Drawings & Models | 3 |
| ARC 214 ◊# | History of Architecture II | 3 |
| ARC 272 ◊# | Design III | 5 |

**Subtotal: 15**

**Total Credit Hours: 28**

*See ARC course descriptions* (p. 183).

**Coordinator:** Frances Figg, Ext. 3129; email: francesfigg@triton.edu

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/ArchitecturalDesignCertificate/15.0101-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Building Information Modeling/BIM Advanced Certificate

**Curriculum ARC.BMA.CERT (C548M), (formerly ARC.ABM.CERT (C448M))**

Building Information Modeling (BIM) is a specialty activity in architectural, construction management or facility management firms, in which the BIM modeler creates a three-dimensional electronic database and model of a proposed or existing building containing all of the geometry, quantity and material information for a building. This certification provides the student and professional a pathway of study that terminates with a certificate that is recognized in the industry.

**Semester One**

| | | |
|---|---|---|
| ARC 261 ◊ | Revit | 4 |

**Subtotal: 4**

**Semester Two**

| | | |
|---|---|---|
| ARC 280 ◊# | Materials, Methods & Sustainability III | 3 |

**Subtotal: 3**

**Total Credit Hours: 7**

*See ARC course description* (p. 183).

**Coordinator:** Frances Figg, Ext. 3129; email: francesfigg@triton.edu

# Automotive General Motors/AC Delco

# General Motors/AC Delco, Associate in Applied Science

**Curriculum AUT.GMC.AAS (C247C)**

The General Motors Automotive Service Educational Program (ASEP) and AC Delco Professional Service Center (PSC) program is a cooperative agreement between Triton College, General Motors and AC Delco*, which alternates college training and practical experience at a GM dealership or AC Delco PSC facility. Students are prepared in all areas of product servicing.

Prospective students must contact the General Motors ASEP coordinator at Ext. 3454 to apply. Application information can be downloaded at www.triton.edu. Hand tools are required both at the dealership and at Triton.

*GM sponsorship is required at a Chevrolet, Buick, GMC, Cadillac or AC Delco PSC repair facility.

### Associate in Applied Science Degree

**Semester One (Fall)**

| | | |
|---|---|---|
| AUT 112 ◊ | Introduction to Automotive Technology | 3 |
| AUT 114 ◊# | Fuel Management Systems | 4 |
| AUT 127 ◊# | Automotive Electricity & Electronics I | 4 |
| AUT 296 ◊# | Automotive Internship I | 2 |
| MAT 122 ◊# | Technical Mathematics | 3 |

**Subtotal: 16**

*MAT 122◊: Meets the Mathematics and Science general education requirement at Triton College. Consulting with the automotive coordinator is recommended for students who are planning to transfer.*

**Semester Two (Spring)**

| | | |
|---|---|---|
| AUT 129 ◊# | Automotive Electricity & Electronics II | 3 |
| AUT 136 ◊# | Brakes Systems | 4 |
| AUT 150 ◊# | Automotive Power Plants | 5 |
| AUT 297 ◊# | Automotive Internship II | 2 |
| | General education/Humanities and Fine Arts | 3 |

**Subtotal: 17**

**Semester Three (Summer)**

| | | |
|---|---|---|
| AUT 280 ◊# | Automotive Heating & Air Conditioning Fundamentals | 2 |
| AUT 282 ◊# | Advanced Automotive Heating & Air Conditioning | 2 |

**Subtotal: 4**

**Semester Four (Fall)**

| | | |
|---|---|---|
| AUT 226 ◊# | Engine Performance & Diagnosis | 5 |
| AUT 275 ◊# | Manual Transmissions & Drives | 6 |
| AUT 298 ◊# | Automotive Internship III | 1 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 18**

**Semester Five (Spring)**

| | | |
|---|---|---|
| AUT 230 ◊# | Computerized Engine Controls | 5 |
| AUT 240 ◊# | Steering, Suspension and Alignment | 4 |
| AUT 277 ◊# | Advanced Automatic Transmission & Repair | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

**Subtotal: 17**

*RHT 101◊, SPE 101◊: Students must complete RHT 101◊ with SPE 101◊, or RHT 101◊ with RHT 102◊. Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Total Credit Hours: 72**

*See AUT course descriptions* (p. 187).

*See Humanities or Fine Arts and Social or Behavioral Sciences General Education requirements* (p. 101).

**Coordinator:** Kenneth Davis, ASEP, Ext. 3454

# Automotive Service Department Management

## Automotive Service Department Management, Associate in Applied Science

**Curriculum AUT.SDM.AAS (C247E)**

The Automotive Service Department Management program blends technical and management courses to prepare students to enter the automotive service management field.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| AUT 112 ◊ | Introduction to Automotive Technology | 3 |
| AUT 114 ◊# | Fuel Management Systems | 4 |
| AUT 127 ◊# | Automotive Electricity & Electronics I | 4 |
| BUS 146 ◊ | Business Computations | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 17** | |

*BUS 146: Meets the Mathematics and/or Science general education requirement.*

**Semester Two**

| | | |
|---|---|---|
| AUT 136 ◊# | Brakes Systems | 4 |
| AUT 150 ◊# | Automotive Power Plants | 5 |
| BUS 154 ◊ | Human Relations in Labor & Management | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 15** | |

*RHT 101◊, SPE 101◊: Students must complete RHT 101◊ with SPE 101◊, or RHT 101◊ with RHT 102◊. Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Three**

| | | |
|---|---|---|
| AUT 240 ◊# | Steering, Suspension and Alignment | 4 |
| AUT 275 ◊# | Manual Transmissions & Drives | 6 |
| AUT 280 ◊# | Automotive Heating & Air Conditioning Fundamentals | 2 |
| BUS 150 ◊ | Principles of Management | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | **Subtotal: 18** | |

**Semester Four**

| | | |
|---|---|---|
| AUT 226 ◊# | Engine Performance & Diagnosis | 5 |
| BUS 151 ◊ | Small Business Management | 3 |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | General education/Social and Behavioral Science | 3 |
| | **Subtotal: 14** | |
| | **Total Credit Hours: 64** | |

*See AUT course descriptions* (p. 187).

*See Humanities or Fine Arts and Social or Behavioral Sciences General Education requirements* (p. 101).

*Note: Hand tools are required for automotive courses that include lab time.*

**Coordinator:** Michael DiGangi, Ext. 3456

# Automotive Technology

## Automotive Technology, Associate in Applied Science

**Curriculum AUT.AUT.AAS (C247D)**

The Automotive Technology degree curriculum provides the student with a working knowledge of automotive repair on today's high-tech, computerized automobile.

Upon completion of the program, the graduate will be able to seek employment as an auto repair technician in a dealership or the aftermarket and can move into advanced automotive opportunities, such as service advising and manufacturer corporate positions. This program is National Automotive Technician Education Foundation (NATEF) - Automotive Service Excellence (ASE) certified.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| AUT 112 ◊ | Introduction to Automotive Technology | 3 |
| AUT 114 ◊# | Fuel Management Systems | 4 |
| AUT 127 ◊# | Automotive Electricity & Electronics I | 4 |
| MAT 122 ◊# | Technical Mathematics | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 17** | |

*MAT 122◊: Meets the Mathematics and/or Science general education requirement.*

**Semester Two**

| | | |
|---|---|---|
| AUT 129 ◊# | Automotive Electricity & Electronics II | 3 |
| AUT 136 ◊# | Brakes Systems | 4 |
| AUT 150 ◊# | Automotive Power Plants | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 15** | |

*RHT 101◊, SPE 101◊: Students must complete RHT 101◊ with SPE 101◊, or RHT 101◊ with RHT 102◊. Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Three**

| | | |
|---|---|---|
| AUT 280 ◊# | Automotive Heating & Air Conditioning Fundamentals | 2 |
| AUT 282 ◊# | Advanced Automotive Heating & Air Conditioning | 2 |
| | **Subtotal: 4** | |

**Semester Four**

| | | |
|---|---|---|
| AUT 226 ◊# | Engine Performance & Diagnosis | 5 |
| AUT 240 ◊# | Steering, Suspension and Alignment | 4 |
| AUT 275 ◊# | Manual Transmissions & Drives | 6 |
| | General education/Humanities and Fine Arts | 3 |
| | **Subtotal: 18** | |

**Semester Five**

| | | |
|---|---|---|
| AUT 230 ◊# | Computerized Engine Controls | 5 |
| AUT 277 ◊# | Advanced Automatic Transmission & Repair | 5 |
| | General education/Social and Behavioral Science | 3 |
| | **Subtotal: 13** | |
| | **Total Credit Hours: 67** | |

*See AUT course descriptions* (p. 187).

*See Humanities or Fine Arts and Social or Behavioral Sciences General Education requirements* (p. 101).

***Note:*** *Hand tools are required for automotive courses that include lab time.*

**Coordinator:** Michael DiGangi, Ext. 3456

# Automotive Technology Certificate

**Curriculum AUT.AUT.CERT (C347C)**

The Automotive Technology certificate curriculum is designed for learners who wish to concentrate solely on technically-related courses in the repair of today's high-tech computerized automobile.

Upon completion of the program, the certificate holder will be able to seek employment as an automobile repair technician in a dealership or the aftermarket and can move into advanced automotive opportunities, such as service advising and manufacturer corporate positions.

Program is a National Automotive Technician Education Foundation (NATEF) division of Automotive Service Excellence (ASE) certified.

**Semester One**

| | | |
|---|---|---|
| AUT 112 ◊ | Introduction to Automotive Technology | 3 |
| AUT 114 ◊# | Fuel Management Systems | 4 |
| AUT 127 ◊# | Automotive Electricity & Electronics I | 4 |
| AUT 136 ◊# | Brakes Systems | 4 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| AUT 129 ◊# | Automotive Electricity & Electronics II | 3 |
| AUT 226 ◊# | Engine Performance & Diagnosis | 5 |
| AUT 240 ◊# | Steering, Suspension and Alignment | 4 |
| AUT 275 ◊# | Manual Transmissions & Drives | 6 |
| | **Subtotal: 18** | |

**Semester Three**

| | | |
|---|---|---|
| AUT 280 ◊# | Automotive Heating & Air Conditioning Fundamentals | 2 |
| AUT 282 ◊# | Advanced Automotive Heating & Air Conditioning | 2 |
| | **Subtotal: 4** | |

**Semester Four**

| | | |
|---|---|---|
| AUT 150 ◊# | Automotive Power Plants | 5 |
| AUT 230 ◊# | Computerized Engine Controls | 5 |
| AUT 277 ◊# | Advanced Automatic Transmission & Repair | 5 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 52** | |

*See AUT course descriptions* (p. 187).

**Coordinator:** Michael DiGangi, Ext. 3456

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/AutomotiveTechnologyCertificate/47.0604-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Automotive Brake and Suspension Certificate

**Curriculum AUT.BRK.CERT (C447B)**

The Brake and Suspension certificate is designed to provide the student with skills necessary for entry-level employment at a brake and suspension repair facility.

Program does not include all of the high-tech courses necessary for today's master technician.

Instruction includes complete brake system servicing, use of lathes for disc and drum machining, asbestos safety control, front-end alignment, active suspension and steering system diagnosis and repair.

| | | |
|---|---|---|
| **Semester One** | | |
| AUT 112 ◊ | Introduction to Automotive Technology | 3 |
| AUT 114 ◊# | Fuel Management Systems | 4 |
| AUT 127 ◊# | Automotive Electricity & Electronics I | 4 |
| | **Subtotal:** | **11** |
| **Semester Two** | | |
| AUT 136 ◊# | Brakes Systems | 4 |
| AUT 240 ◊# | Steering, Suspension and Alignment | 4 |
| | **Subtotal:** | **8** |
| | **Total Credit Hours:** | **19** |

*See AUT course descriptions* (p. 187).

**Coordinator:** Michael DiGangi, Ext. 3456

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/AutomotiveBrakeandSuspensionCertificate/47.0604-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Automotive Engine Performance Certificate

**Curriculum AUT.EGP.CERT (C447C)**

The Engine Performance certificate program is designed to provide the student skills to seek entry-level employment as an engine performance technician.

This program does not include all of the high-tech courses necessary for today's master technician.

Instruction includes complete fuel system diagnosis, repair and adjustment, battery, starting, charging and ignition system testing, scope/engine analyzer usage both analog and digital, and computerized engine control systems.

| | | |
|---|---|---|
| **Semester One** | | |
| AUT 112 ◊ | Introduction to Automotive Technology | 3 |
| AUT 114 ◊# | Fuel Management Systems | 4 |
| AUT 127 ◊# | Automotive Electricity & Electronics I | 4 |
| | **Subtotal:** | **11** |
| **Semester Two** | | |
| AUT 129 ◊# | Automotive Electricity & Electronics II | 3 |
| AUT 226 ◊# | Engine Performance & Diagnosis | 5 |
| | **Subtotal:** | **8** |
| **Semester Three** | | |
| AUT 230 ◊# | Computerized Engine Controls | 5 |
| | **Subtotal:** | **5** |
| | **Total Credit Hours:** | **24** |

*See AUT course descriptions* (p. 187).

**Coordinator:** Michael DiGangi, Ext. 3456

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/AutomotiveEnginePerformanceCertificate/47.0604-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Automotive Engine Repair Certificate

**Curriculum AUT.ENR.CERT (C447D)**

The Engine Repair certificate program is designed to provide the student with skills necessary for entry-level employment at an engine repair facility.

This program does not include all of the high-tech courses necessary for today's master technician.

Instruction includes: engine/power plant diagnosis and overhaul stressing field repair techniques such as valve and seat refinishing, guide repair, magna fluxing, block, piston and rod service; bottom-end and engine front-end service plus basic fuel and engine electrical systems.

| | | |
|---|---|---|
| **Semester One** | | |
| AUT 112 ◊ | Introduction to Automotive Technology | 3 |
| AUT 114 ◊# | Fuel Management Systems | 4 |
| | **Subtotal:** | **7** |
| **Semester Two** | | |
| AUT 127 ◊# | Automotive Electricity & Electronics I | 4 |
| AUT 150 ◊# | Automotive Power Plants | 5 |
| | **Subtotal:** | **9** |
| | **Total Credit Hours:** | **16** |

*See AUT course descriptions* (p. 187).

**Coordinator:** Michael DiGangi, Ext. 3456

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/AutomotiveEngineRepairCertificate/47.0604-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Automotive Transmission Repair Certificate

(formerly Automotive Transmission Certificate)

**Curriculum AUT.TRN.CERT (C447E)**

The Transmission certificate program is designed to provide the student with skills necessary to seek entry-level employment at a transmission repair facility.

This program does not include all of the high-tech courses necessary for today's master technician.

Instruction includes electricity and electronics for electrical applications to the transmission, complete brake system servicing, use of lathes for disc and drum-machining, asbestos safety control, transmission removal, overhaul and replacement, clutch replacement, universal joints, driveshafts, differential diagnosis and repair, and torque converter clutch systems.

**Semester One**

| | | |
|---|---|---|
| AUT 112 ◊ | Introduction to Automotive Technology | 3 |
| AUT 127 ◊# | Automotive Electricity & Electronics I | 4 |
| | | **Subtotal: 7** |

**Semester Two**

| | | |
|---|---|---|
| AUT 136 ◊# | Brakes Systems | 4 |
| AUT 275 ◊# | Manual Transmissions & Drives | 6 |
| | | **Subtotal: 10** |

*AUT 275◊: Can be taken concurrently with AUT 136◊.*

**Semester Three**

| | | |
|---|---|---|
| AUT 277 ◊# | Advanced Automatic Transmission & Repair | 5 |
| | | **Subtotal: 5** |
| | | **Total Credit Hours: 22** |

*See AUT course descriptions* (p. 187).

**Coordinator:** Michael DiGangi, Ext. 3456

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/AutomotiveTransmissionRepairCertificate/47.0604-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Biotechnology Laboratory Technician

## Biotechnology Laboratory Technician, Associate in Applied Science

**Curriculum BIS.BTC.AAS (C226B)**

The Biotechnology Laboratory Technician Associate in Applied Science degree emphasizes skills necessary for entry-level employment in bioscience laboratories. The program focuses on techniques basic to the biotechnology industry. Students acquire proficiency in laboratory skills, effective communications and employment skills.

Program graduates may seek entry-level employment in public or private laboratories for positions titled laboratory assistant, laboratory technician, laboratory tester or laboratory worker, cell culture technician, research technician, and/or microbiology technician. These sources of employment are found in government and university laboratories, pharmaceutical companies, food processing industries, companies performing research and development, companies involved in plant and animal breeding, manufacturing, sales, and even customer service. The Biotechnology Laboratory Technician curriculum is designed to meet the increasing demands for skilled laboratory technicians in various fields of biological and chemical technology. With the curriculum objectives designed to prepare graduates to serve as research assistants and technicians in laboratory and industrial settings, course work emphasizes biology, chemistry, and biotechnology techniques. The Biotechnology Laboratory Technician program also prepares students who wish to continue their studies toward a bachelor's degree and advanced degrees in biotechnology.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 110 ◊# | Fundamentals of Chemistry | 4 |
| | OR | |
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 110 ◊# | College Algebra | 5 |
| | OR | |
| MAT 111 ◊# | Pre-Calculus | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | | **Subtotal: 16-17** |

| | | |
|---|---|---|
| **Semester Two** | | |
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BOT 200 ◊# | Cellular and Molecular Biology | 3 |
| CHM 132 ◊# | Elementary Organic Chemistry | 5 |
| | OR | |
| CHM 234 ◊# | Organic Chemistry I | 5 |
| SAT 170 ◊ | Introduction to Biotechnology | 3 |
| | **Subtotal: 15** | |
| **Semester Three** | | |
| BOT 110 ◊ | Good Lab Practices/Good Manufacturing Practices in Biotechnology | 1 |
| BOT 210 ◊# | Introduction to Biochemistry | 3 |
| BOT 230 ◊# | Biotechnology Laboratory I (DNA Techniques) | 4 |
| MAT 170 ◊# | Elementary Statistics | 4 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | **Subtotal: 15** | |
| **Semester Four** | | |
| BOT 220 ◊# | Cell and Tissue Culture | 4 |
| BOT 240 ◊# | Biotechnology Laboratory II (Protein Techniques & Biofuels) | 4 |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| PHL 113 ◊ | Environmental Ethics | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| | OR | |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| | OR | |
| SOC 131 ◊ | Social Problems | 3 |
| | **Subtotal: 17** | |
| | **Total Credit Hours: 63-64** | |

*See BOT course descriptions* (p. 190).

**Contact:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Business Management

## Business Management, Associate in Applied Science

**Curriculum BUS.MGT.AAS (C206B)**

The Business Management curriculum provides students with employment or advancement in business, industry, government or service organizations. The curriculum is intended to serve the needs of students who want to enter management positions and to enable those already in management to upgrade their skills and potential for growth. Skills are developed in communication, management of personnel, accounting, customer service and technology.

In addition, a certificate program in Business Management is available for those students who prefer a selection of business courses but do not wish to enter a degree program at this time.

Upon successful completion of the Business Management program, the graduate will be able to:

- demonstrate knowledge of the business environment from an ethical, economic and global perspective;
- articulate an awareness of current legal, ethical, social, financial, technical and economic environmental factors, as they apply to business;
- prepare and present effective written and oral business-related reports;
- effectively communicate and interact with others;
- use appropriate technology and other resources to research, analyze and integrate data to solve business problems;
- list successful marketing mix strategies as they relate to the business environment;
- apply management functions both departmentally and to the organization as a whole;
- assess and develop individual communication, leadership and team-building styles; and
- recognize and adapt to the communication, leadership and team-building styles of others.

### Associate in Applied Science Degree

| | | |
|---|---|---|
| **Semester One** | | |
| ACC 100 ◊ | Basic Accounting I | 3 |
| | OR | |
| ACC 101 ◊ | Financial Accounting | 4 |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| | OR | |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| BUS 141 ◊ | Introduction to Business | 3 |
| BUS 146 ◊ | Business Computations | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 15-16** | |
| **Semester Two** | | |
| ACC 103 ◊# | Basic Accounting II | 3 |
| | OR | |
| ACC 105 ◊# | Managerial Accounting | 3 |
| BUS 149 ◊ | Elementary Statistics | 3 |
| BUS 150 ◊ | Principles of Management | 3 |
| BUS 161 ◊ | Business Law I | 3 |
| BUS 171 ◊ | Introduction to Customer Service | 3 |
| | **Subtotal: 15** | |

*ACC 100◊ or ACC 101◊; ACC 103◊ or ACC 105◊; and BUS*

*146◊ meets the Mathematics and/or Science general education requirement. For students intending to go directly into the workforce take BUS 146◊.*

**Semester Three**

| | | |
|---|---|---|
| BUS 188 ◊ | Business Writing | 3 |
| BUS 200 ◊ | Introduction to Human Resource Management | 3 |
| BUS 212 ◊# | Principles of Finance | 3 |
| ECO 102 ◊ | Macroeconomics | 3 |
| | General education/Humanities and Fine Arts | 3-4 |

**Subtotal: 15-16**

*ECO 102◊: Meets the Social and Behavioral Sciences general education requirement.*

**Semester Four**

| | | |
|---|---|---|
| BUS 127 ◊ | Principles of Marketing | 3 |
| BUS 262 ◊# | Business Law II | 3 |
| BUS 285 ◊# | Project Management | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | Program electives | 3 |

**Subtotal: 15**

**Total Credit Hours: 60-62**

*See BUS course descriptions* (p. 191).

Program electives (3): Any ACC, BUS, or CIS course

**Note:** ACC 100◊ or ACC 101◊ is a prerequisite for ACC 105◊. ACC 100◊ and ACC 103◊ are not transferable to all universities.

**Coordinator:** Dr. William M. Griffin, Ext. 3579 or williamgriffin@triton.edu

# Business Management Certificate

**Curriculum BUS.MGT.CERT (C306B)**

The Business Management certificate program serves students who may already be employed, but who desire to upgrade themselves at their present place of employment. The program also provides a broad base of business courses for individuals wishing to acquire entry-level skills.

Upon successful completion of the Business Management certificate program, the graduate will be able to:

- coordinate the activities of a business in accordance with organizational policies;
- prepare and present effective written and oral business-related reports;
- work effectively as a member of a team;
- demonstrate knowledge of the management functions and skills within an organization system as they interact in a dynamic and diverse global environment; and
- use appropriate technology as it relates to a business environment.

**Semester One**

| | | |
|---|---|---|
| BUS 141 ◊ | Introduction to Business | 3 |
| BUS 146 ◊ | Business Computations | 3 |
| BUS 154 ◊ | Human Relations in Labor & Management | 3 |
| BUS 171 ◊ | Introduction to Customer Service | 3 |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |

**Subtotal: 15**

**Semester Two**

| | | |
|---|---|---|
| BUS 122 ◊# | Business English | 3 |
| BUS 127 ◊ | Principles of Marketing | 3 |
| BUS 150 ◊ | Principles of Management | 3 |
| BUS 285 ◊# | Project Management | 3 |
| | Program electives | 3 |

**Subtotal: 15**

**Total Credit Hours: 30**

*See BUS course descriptions* (p. 191).

Program electives (3): Any ACC or BUS course

**Coordinator:** Dr. William M. Griffin, Ext. 3579

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/BusinessManagementCertificate/52.0201-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Entrepreneurship Certificate

**Curriculum BUS.ETR.CERT (C406D)**

The Entrepreneurship Program prepares learners to competently start their own small business. For persons who currently own a small business, the program provides specific skills and knowledge necessary to increase sales and profits, and improve overall operation efficiency.

**Semester One**

| | | |
|---|---|---|
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| BUS 127 ◊ | Principles of Marketing | 3 |
| BUS 136 ◊ | Entrepreneurship | 3 |
| BUS 141 ◊ | Introduction to Business | 3 |
| BUS 150 ◊ | Principles of Management | 3 |

**Subtotal: 15**

**Semester Two**

| | | |
|---|---|---|
| BUS 102 ◊ | Small Business Accounting | 3 |
| BUS 161 ◊ | Business Law I | 3 |
| BUS 200 ◊ | Introduction to Human Resource Management | 3 |

| | | |
|---|---|---|
| BUS 151 ◊ | Small Business Management | 3 |
| | OR | |
| BUS 171 ◊ | Introduction to Customer Service | 3 |
| | OR | |
| BUS 293 ◊# | Global Business | 3 |
| CIS 110 | Social Networking and Web 2.0 | 3 |

**Subtotal: 15**

**Total Credit Hours: 30**

*See BUS course descriptions* (p. 191)*; CIS course descriptions* (p. 196).

**Coordinator:** Dr. William M. Griffin, Ext. 3579

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EntrepreneurshipCertificate/52.0701-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Financial Services Certificate

**Curriculum BUS.FSV.CERT (C306K)**

The Financial Services Certificate is designed to acquaint students with the financial services industry and their unique characteristics in the business world. Prepares students for entry-level positions in the financial services industry, which includes banking, brokerages, real estate, mortgage companies, insurance, financial planning organizations and government institutions.

**Semester One**

| | | |
|---|---|---|
| ACC 101 ◊ | Financial Accounting | 4 |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| BUS 129 ◊ | Personal Finance | 3 |
| BUS 141 ◊ | Introduction to Business | 3 |
| BUS 161 ◊ | Business Law I | 3 |

**Subtotal: 16**

**Semester Two**

| | | |
|---|---|---|
| ACC 105 ◊# | Managerial Accounting | 3 |
| BUS 149 ◊ | Elementary Statistics | 3 |
| BUS 201 ◊# | Introduction to Commodity Markets | 3 |
| BUS 212 ◊# | Principles of Finance | 3 |
| BUS 262 ◊# | Business Law II | 3 |

**Subtotal: 15**

**Total Credit Hours: 31**

*See ACC course descriptions* (p. 180)*; BUS course descriptions* (p. 191).

**Coordinator:** Dr. William M. Griffin, Ext. 3579

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/FinancialServicesCertificate/52.1908-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Business Support Specialist Certificate

**Curriculum BUS.SUP.CERT (C307D)**

Students interested in pursuing executive assistant positions in business today can pursue this certificate. Students will learn the skills and knowledge in computer software applications, accounting principles, records management and customer service, which is required in today's high-tech business environment. A grade of "C" in BUS 104◊ (40 wpm, with five errors or fewer, on five-minute timing) is required for graduation.

**Semester One**

| | | |
|---|---|---|
| ACC 100 ◊ | Basic Accounting I | 3 |
| | OR | |
| ACC 101 ◊ | Financial Accounting | 4 |
| | OR | |
| BUS 146 ◊ | Business Computations | 3 |
| BUS 103 ◊ | Keyboarding Technique | 1 |
| BUS 122 ◊# | Business English | 3 |
| BUS 171 ◊ | Introduction to Customer Service | 3 |
| CIS 119 ◊ | Windows | 1 |
| CIS 140 ◊ | Microsoft Word I | 3 |
| CIS 144 ◊ | Microsoft PowerPoint | 3 |

**Subtotal: 17-18**

*BUS 103◊: Any student who can type 25 words per minute on a three-minute timing, with five errors or fewer, using proper touch-typing technique, may take a proficiency test for BUS 103◊.*

*BUS 103◊: Students completing the BUS 103◊ proficiency requirement in the first semester may take BUS 104◊ in the first semester instead of the second semester.*

**Semester Two**

| | | |
|---|---|---|
| BUS 104 ◊# | Keyboarding Speed & Accuracy | 1 |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| BUS 125 ◊ | Formatting/Proofreading Business Documents | 3 |
| BUS 267 ◊ | Records Management | 2 |
| CIS 142 ◊ | Microsoft Word II | 3 |
| CIS 158 ◊# | Introduction to the World Wide Web | 1 |

**Subtotal: 13**

**Total Credit Hours: 30-31**

*See BUS course descriptions* (p. 191).

**Coordinator:** Dr. William M. Griffin, Ext. 3579

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/BusinessSupportSpecialistCertificate/52.0401-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Medical Administrative Assistant Certificate

**Curriculum BUS.MEA.CERT (C407K)**

Students that pursue this certificate program will be prepared to begin entry-level careers as a member of the health care team. Students receive the specialized training through the completion of courses in the creation and maintenance of Medical Records, Medical Terminology, Medical Machine Transcription, Medical Coding for out-patient health care, office procedures and computer applications software skills. A grade of "C" or better in BUS 104◊ (40 wpm with five errors or fewer, on five-minute timing) is required for graduation.

**Semester One**

| | | |
|---|---|---|
| AHL 102 ◊ | Ethics and Law for Allied Health Professionals | 1 |
| AHL 120 ◊ | Comprehensive Medical Terminology | 3 |
| BUS 103 ◊ | Keyboarding Technique | 1 |
| BUS 122 ◊# | Business English | 3 |
| CIS 119 ◊ | Windows | 1 |
| CIS 140 ◊ | Microsoft Word I | 3 |

**Subtotal: 12**

*BUS 103◊: Students completing the BUS 103◊ proficiency requirement in the first semester may take BUS 104◊ in the first semester, instead of the second semester.*

**Semester Two**

| | | |
|---|---|---|
| AHL 110 ◊ | Medical Coding & Office Procedures | 2 |
| BUS 104 ◊# | Keyboarding Speed & Accuracy | 1 |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| BUS 265 ◊# | Medical Transcription | 2 |
| BUS 267 ◊ | Records Management | 2 |
| CIS 142 ◊ | Microsoft Word II | 3 |

**Subtotal: 13**

*BUS 103◊, BUS 104◊: Any student who can type 25 words per minute, on a three-minute timing, with five errors or fewer, using proper touch-typing technique may take a proficiency test for BUS 103◊.*

**Total Credit Hours: 25**

*See BUS course descriptions* (p. 191).

**Coordinator:** Dr. William M. Griffin, Ext. 3579

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/MedicalAdministrativeAssistantCertificate/51.0707-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Office Assistant Certificate

**Curriculum BUS.OFA.CERT (C407D)**

Students that pursue this certificate program will be prepared to begin entry-level office positions. Students learn the skills and knowledge in office procedure and word processing, customer service and records management.

**Semester One**

| | | |
|---|---|---|
| BUS 103 ◊ | Keyboarding Technique | 1 |
| BUS 122 ◊# | Business English | 3 |
| CIS 119 ◊ | Windows | 1 |
| CIS 140 ◊ | Microsoft Word I | 3 |

**Subtotal: 8**

*BUS 103◊: Students completing the BUS 103◊ proficiency requirement in the first semester may take BUS 104◊ in the first semester, instead of the second semester.*

**Semester Two**

| | | |
|---|---|---|
| BUS 104 ◊# | Keyboarding Speed & Accuracy | 1 |
| BUS 125 ◊ | Formatting/Proofreading Business Documents | 3 |
| BUS 267 ◊ | Records Management | 2 |
| HUM 126 ◊ | Modern Business Ethics | 1 |

**Subtotal: 7**

*BUS 103◊, BUS 104◊: Any student who can type 25 words per minute, on a three-minute timing, with five errors or fewer, using proper touch-typing technique may take a proficiency test for BUS 103◊.*

**Total Credit Hours: 15**

*See BUS course descriptions* (p. 191).

**Coordinator:** Dr. William M. Griffin, Ext. 3579

# Certified Medical Assistant

# Certified Medical Assistant Certificate

**Curriculum CMA.CMA.CERT (C318A)**

Medical Assistants are multi-skilled allied health professionals trained to perform a variety of administrative and clinical functions supporting diagnostic, treatment, and related health care services as part of the American health care industry. Medical Assistants typically operate under the supervision of licensed physicians or other similarly qualified independent health practitioners and therapists.

The Certified Medical Assistant program offers a 32-credit course of study that prepares graduates to serve as medical assistants in organizations that typically employ them. Such organizations may include physician offices, outpatient clinics, hospitals, clinical laboratories, paramedical examiner agencies, health insurance agencies, government and public health agencies, educational institutions, research institutions, and related medical diagnostic, treatment, and therapeutic facilities.

Common administrative duties include clerical tasks, written correspondence, document and information processing, medical reception, appointment scheduling, medical records management, billing and collections, insurance claims processing, practice finances, facilities maintenance, medical practice management, and the like. Common clinical duties include medical documentation; eliciting medical histories; infection control; measuring vital signs, health indicators, and physical dimensions; preparing for and assisting with physical examinations, diagnostic procedures, as well as treatment and therapeutic regimens; administering medications; collecting, processing, and analyzing patient specimens.

The U.S. Bureau of Labor Statistics has consistently indicated that the employment of Medical Assistants is projected to grow much faster than average for all occupations. According to the Illinois Department of Employment Security, the average number of job openings through 2022 is projected to be 706/year in Illinois and 232/year in the Chicago area (Cook County). The median full-time compensation for Medical Assistants in the Chicago area is approximately $15/hour or $30,000/year.

| | | |
|---|---|---|
| **Semester One** | | |
| AHL 120 ◊ | Comprehensive Medical Terminology | 3 |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| | OR | |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| CMA 101# | Introduction to Medical Assisting | 2 |
| CMA 102# | Medical Assistant Administrative Applications I | 3 |
| CMA 110 ◊# | Medical Assistant Clinical Applications I | 3 |
| | **Subtotal: 14** | |
| **Semester Two** | | |
| AHL 103 ◊ | Basic Pharmacology for Allied Health Professionals | 1 |
| BIS 190 ◊# | Anatomy & Physiology for Allied Health Majors | 4 |
| CMA 103 ◊# | Medical Assistant Administrative Applications II | 3 |
| CMA 130 ◊# | Medical Assistant Clinical Applications II | 3 |
| CMA 180 ◊# | Medical Assistant Laboratory Applications | 3 |
| | **Subtotal: 14** | |
| **Semester Three** | | |
| CMA 200 ◊# | Medical Assistant Practicum | 1 |
| CMA 250 ◊# | Certified Medical Assistant Seminar | 3 |
| | **Subtotal: 4** | |
| | **Total Credit Hours: 32** | |

***Note**: All program requirements must be completed with a grade of "C" or better.*

*See CMA course descriptions* (p. 207).

**Coordinator:** John Cody, Ext. 3474; email: johncody@triton.edu

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/CertifiedMedicalAssistantCertificate/51.0801-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Computer Information Systems

## Computer Information Systems, Associate in Applied Science

**Curriculum CIS.CIS.AAS (C207A)**

The Computer Information Systems concentrations are designed to provide students with the skills necessary to obtain a position in the specialties of web technologies, database design, game development and programming, and Linux system management. Graduates of the program will be able to:

- demonstrate a basic understanding of computer hardware and software;
- demonstrate basic level of competency in programming and logic skills;
- utilize web technologies;
- use productivity software effectively;
- identify an area of interest through the selection of elective courses;
- work effectively in teams; and
- present conclusions effectively, orally and in writing.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | OR | |
| CIS 102# | Professional Information Technology and Computer Science | 3 |
| CIS 121 ◊# | Introduction to Programming | 3 |
| CIS 174 ◊ | Windows Client-Server Systems Administration | 3 |
| | OR | |
| CIS 177 ◊ | Introduction to Linux | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Humanities | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| CIS 150 ◊# | Computer Systems Applications | 3 |
| CIS 210 ◊# | Data Communications & Networking Fundamentals | 3 |
| CIS 278 ◊# | Database Management Systems | 3 |
| | Selections from concentration | 6 |
| | **Subtotal: 15** | |

**Semester Three**

| | | |
|---|---|---|
| CIS 125 ◊# | Discrete Mathematics for Computing | 4 |
| | OR | |
| MAT 110 ◊# | College Algebra | 5 |
| | OR | |
| MAT 111 ◊# | Pre-Calculus | 5 |
| | OR | |
| MAT 114 ◊# | Plane Trigonometry | 3 |
| CIS 276 ◊# | Operating Systems Introduction | 3 |
| | OR | |
| CIS 277 ◊# | Command Processing and Scripting | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | Selections from concentration | 6 |
| | **Subtotal: 15-17** | |

*CIS 125◊, MAT 110◊, MAT 111◊, MAT 114◊: Meets the Mathematics and/or Science general education requirement.*

**Semester Four**

| | | |
|---|---|---|
| | General education/Social and Behavioral Science | 3 |
| | Selections from concentration | 15 |
| | **Subtotal: 18** | |

**Total Credit Hours: 63-65**

**Choose from one of the following concentrations:**

**Database Design Concentration (CIS.DDE.AAS)**

Take:

| | | |
|---|---|---|
| CIS 257 ◊# | Access Programming | 3 |
| CIS 262 ◊# | Oracle DBMS Development | 3 |
| CIS 267 ◊# | Advanced Access Programming | 3 |
| CIS 275 ◊# | Project Management for Small-Business Systems | 3 |
| CIS 280 ◊# | Business Systems Analysis & Design | 3 |
| CIS 299 ◊ | Special Topics in Computer Information Systems | 3 |
| | Choose from any concentration | 9 |
| | **Subtotal: 27** | |

**E-Commerce Concentration (CIS.COM.AAS)**

| | | |
|---|---|---|
| CIS 189 ◊ | Internet Foundations | 3 |
| CIS 190 ◊# | Web Site Development | 3 |
| CIS 192 ◊# | Server-Side Programming | 3 |
| CIS 196 ◊# | E-Commerce | 3 |
| CIS 220 ◊# | Introduction to Network Security | 3 |
| CIS 280 ◊# | Business Systems Analysis & Design | 3 |
| VIC 100 ◊ | Graphic Design | 3 |
| VIC 172 ◊# | Web Page Design | 3 |
| | **Subtotal: 27** | |

**Game and Program Development Concentration (CIS.GPR.AAS)**

| | | |
|---|---|---|
| CIS 250 ◊# | Visual Basic Programming | 3 |
| CIS 253 ◊# | Advanced Visual Basic Programming | 3 |
| CIS 255 ◊# | C++ Programming | 3 |
| CIS 263 ◊# | Introduction to Object Oriented Programming | 3 |
| CIS 264 ◊# | C# Programming | 3 |
| CIS 295 ◊# | Data Structures With C++ | 3 |
| | Choose from any concentration | 9 |
| | | **Subtotal: 27** |

**Linux Professional Concentration (CIS.LNX.AAS)**

| | | |
|---|---|---|
| CIS 177 ◊ | Introduction to Linux | 3 |
| CIS 179 ◊# | Linux System Administration | 3 |
| | Choose from any concentration | 21 |
| | | **Subtotal: 27** |

*See CIS course descriptions* (p. 196).

*See Humanities and Social or Behavioral Sciences General Education requirements* (p. 101).

**Coordinator:** David Anderson, Ext. 3349

## Computer Network and Telecommunications Systems, Associate in Applied Science

(formerly Computer Networking and Support Services)

**Curriculum CIS.CNT.AAS (C207F)**

The Computer Network and Telecommunications Systems program is designed to provide students with the skills necessary to obtain a position in the specialty of Network and Telecommunications Systems. Graduates of the program will be able to:

- demonstrate a basic understanding of computer hardware and software;
- demonstrate basic level of competency in programming and logic skills;
- utilize web technologies;
- present conclusions effectively, orally and in writing;
- administer and maintain a computer network; and
- work effectively in teams.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| CIS 125 ◊# | Discrete Mathematics for Computing | 4 |
| | OR | |
| MAT 110 ◊# | College Algebra | 5 |
| | OR | |
| MAT 111 ◊# | Pre-Calculus | 5 |
| | OR | |
| MAT 114 ◊# | Plane Trigonometry | 3 |
| CIS 174 ◊ | Windows Client-Server Systems Administration | 3 |
| | OR | |
| CIS 177 ◊ | Introduction to Linux | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Humanities | 3 |
| | | **Subtotal: 15-17** |

*CIS 125◊, MAT 110◊, MAT 111◊, MAT 114◊: Meets the Mathematics and/or Science general education requirement.*

**Semester Two**

| | | |
|---|---|---|
| CIS 121 ◊# | Introduction to Programming | 3 |
| CIS 276 ◊# | Operating Systems Introduction | 3 |
| | OR | |
| CIS 277 ◊# | Command Processing and Scripting | 3 |
| CIS 210 ◊# | Data Communications & Networking Fundamentals | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | Program electives | 6 |
| | | **Subtotal: 18** |

**Semester Three**

| | | |
|---|---|---|
| CIS 220 ◊# | Introduction to Network Security | 3 |
| CIS 212 ◊# | Internetworking, Routing and Switching | 3 |
| CIS 236 ◊ | Introduction to Wireless LAN Administration | 3 |
| | Program electives | 9 |
| | | **Subtotal: 18** |

**Semester Four**

| | | |
|---|---|---|
| | General education/Social and Behavioral Science | 3 |
| | Program electives | 12 |
| | | **Subtotal: 15** |

**Program electives (27):**

| | | |
|---|---|---|
| CIS 176 ◊ | LAN Administration: Windows Server | 3 |
| | OR | |
| CIS 179 ◊# | Linux System Administration | 3 |
| CIS 178 ◊# | Administering Web Servers | 3 |
| CIS 222 ◊# | Administering Network Infrastructure | 3 |
| CIS 224 ◊# | Managing a Network Environment | 3 |
| CIS 226 ◊# | Advanced Network Security | 3 |
| CIS 228 ◊# | Administering Directory Services | 3 |
| CIS 238 ◊# | Introduction to Computer Forensics | 3 |
| CIS 240 ◊# | Advanced Computer Forensics | 3 |
| CIS 260 ◊# | Cooperative Work Experience | 2 |
| CIS 261# | Cooperative Work Experience | 2 |
| CIS 278 ◊# | Database Management Systems | 3 |
| CIS 214# | Scaling & Connecting Networks | 3 |

**Total Credit Hours: 66-68**

*See CIS course descriptions* (p. 196).

*See Humanities General Education requirements* (p. 101).

**Coordinator:** David Anderson, Ext. 3349

## A+ Microcomputer Technician Certificate

**Curriculum CIS.APL.CERT (C407N)**

The A+ Microcomputer Technician certificate is designed to provide students with the skills necessary to obtain an entry-level position in the growing specialty of PC technical support. The courses parallel CompTIA's A+ exam objectives.

Upon successful completion of the A+ Microcomputer Technician program, the graduate will be able to:

- demonstrate an understanding of computer hardware and software;
- apply customer service and end-user support principles when dealing with customers and individuals lacking a technical background;
- demonstrate knowledge of installing and configuring software and hardware;
- communicate effectively with clients, verbally and in writing;
- demonstrate critical thinking in problem solving;
- work effectively in teams; and
- apply the skills that are the focus of this program to business scenarios.

**Semester One**

| | | |
|---|---|---|
| CIS 105 ◊ | A+ PC Hardware & Software | 3 |
| CIS 106 ◊ | A+ PC Maintenance & Repair | 3 |
| CIS 174 ◊ | Windows Client-Server Systems Administration | 3 |
| CIS 210 ◊# | Data Communications & Networking Fundamentals | 3 |

**Subtotal: 12**

**Total Credit Hours: 12**

*See CIS course descriptions* (p. 196).

***Note:*** *A+ Certified technicians can earn credit towards CIS 105 ◊ and/or CIS 106 ◊*

**Coordinator:** David Anderson, Ext. 3349

## Cloud Computing Systems Certificate

**Curriculum CIS.CLD.CERT (C407U)**

The certificate in Cloud Computing Systems prepares students for employment as systems administrators, solution architects, and operations managers for enterprise cloud computing platforms.

Upon successful completion of the Cloud Computing Systems Certificate program, the graduate will be able to:

- design and deploy scalable, highly available, and fault tolerant systems in cloud environments;
- manage operations and automation on cloud platforms;
- migrate existing on premise systems to cloud platforms; and
- identify operational best practices, cost control, appropriate use, and security on cloud platforms as it relates to business use cases.

**Expected Background/Prerequisite Coursework:**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | *or equivalent work experience* | |

**Required Courses**

| | | |
|---|---|---|
| CIS 107# | Cloud Systems and Operations | 3 |
| CIS 120# | Introduction to Big Data | 3 |
| CIS 174 ◊ | Windows Client-Server Systems Administration | 3 |
| CIS 177 ◊ | Introduction to Linux | 3 |
| CIS 207# | Cloud Computing Architecture and Projects | 3 |
| CIS 277 ◊# | Command Processing and Scripting | 3 |

**Subtotal: 18**

**Total Credit Hours: 18**

*See CIS course descriptions* (p. 196).

**Coordinator:** David Anderson, Ext. 3968

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/CloudComputingSystemsCertificate/11.0801-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Cybersecurity and Information Assurance, Associate in Applied Science

**Curriculum CIS.CIB.AAS (C207S)**

The Cybersecurity and Information Assurance program provides a foundation in computing and network security and provides students with the skills necessary to obtain positions as cybersecurity analysts, specialists, engineers, and technical security support personnel. Coursework will prepare students for Cisco Certified Network Associate (CCNA) certification exams and offers courses required in the first two years of a bachelor degree. Students should note that four-year colleges and universities vary in specific course and transfer requirements. The student should consult the program coordinator, as well as the catalog and/or admissions advisor at the four-year college or university to which transfer is intended.

Graduates of the program will be able to:

- demonstrate competency in using basic computer hardware, software, operating systems, and security;
- demonstrate competency in analysis of data, logic, programming and computing skills;
- design and build secure networks;
- assess technical vulnerabilities, implement cybersecurity and information assurance best practices; and
- monitor and deploy layered defense mechanisms in complex IT infrastructure.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | OR | |
| CIS 102# | Professional Information Technology and Computer Science | 3 |
| CIS 105 ◊ | A+ PC Hardware & Software | 3 |
| CIS 177 ◊ | Introduction to Linux | 3 |
| CIS 210 ◊# | Data Communications & Networking Fundamentals | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| CIS 125 ◊# | Discrete Mathematics for Computing | 4 |
| | OR | |
| MAT 110 ◊# | College Algebra | 5 |
| | OR | |
| MAT 111 ◊# | Pre-Calculus | 5 |
| | OR | |
| MAT 114 ◊# | Plane Trigonometry | 3 |
| CIS 212 ◊# | Internetworking, Routing and Switching | 3 |
| CIS 220 ◊# | Introduction to Network Security | 3 |
| CIS 277 ◊# | Command Processing and Scripting | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 15-17** | |

*CIS 125◊, MAT 110◊, MAT 111◊, MAT 114◊: Meets the Mathematics and/or Science general education requirement.*

**Semester Three**

| | | |
|---|---|---|
| CIS 121 ◊# | Introduction to Programming | 3 |
| CIS 226 ◊# | Advanced Network Security | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | Program electives | 6 |
| | **Subtotal: 15** | |

**Semester Four**

| | | |
|---|---|---|
| CIS 271# | Capstone Project in Cybersecurity and Information Assurance | 1 |
| | General education/Social and Behavioral Science | 3 |
| | Program electives | 15 |
| | **Subtotal: 19** | |

**Program Electives (21):**

| | | |
|---|---|---|
| CIS 176 ◊ | LAN Administration: Windows Server | 3 |
| CIS 179 ◊# | Linux System Administration | 3 |
| CIS 227# | Vulnerability Analysis & Ethical Hacking | 3 |
| CIS 229# | Information Assurance Ethics, Management and Policy | 3 |
| CIS 214# | Scaling & Connecting Networks | 3 |
| CIS 231# | Information Assurance Risk, Continuity and Governance | 3 |
| CIS 236 ◊ | Introduction to Wireless LAN Administration | 3 |
| CIS 238 ◊# | Introduction to Computer Forensics | 3 |
| CIS 240 ◊# | Advanced Computer Forensics | 3 |
| | **Total Credit Hours: 64-66** | |

*See CIS course descriptions* (p. 196).

*See Humanities or Fine Arts and Social or Behavioral Sciences General Education requirements* (p. 101).

**Coordinator:** David Anderson, Ext. 3349

# Cybersecurity and Information Assurance Certificate

**Curriculum CIS.CYB.CERT (C407S)**

The Cybersecurity and Information Assurance Certificate is designed to provide students with foundational and advanced knowledge and experience with technical security practices and information assurance policies in order to obtain positions as Cybersecurity analysts, specialists, engineers, technical security support personnel, and managers. Coursework will prepare students and current Information Technology (IT) practitioners with experience for Cisco Certified Network Associate (CCNA) / Certified Information Systems Security Practitioner (CISSP) / System Administration, Networking, and Security Institute (SANS) or the International Council of Electronic Commerce Consultants (EC-Council) certification exams.

At the completion of this certificate the graduate will be able to:

- plan, design, build, deploy and manage secure IT infrastructure and systems compliant with current information assurance policies and regulations;
- assess technical vulnerabilities;
- identify attack vectors;
- respond to attacks; and
- monitor and deploy layered defense mechanisms in complex IT infrastructure.

**Expected background:**

| | | |
|---|---|---|
| CIS 102# | Professional Information Technology and Computer Science | 3 |

*or comparable background in IT/Computing.*

**Required Courses**

| | | |
|---|---|---|
| CIS 210 ◊# | Data Communications & Networking Fundamentals | 3 |
| CIS 220 ◊# | Introduction to Network Security | 3 |
| CIS 226 ◊# | Advanced Network Security | 3 |
| CIS 277 ◊# | Command Processing and Scripting | 3 |
| | Select courses from appropriate concentration | 6-9 |

**Subtotal: 18-21**

**Cybersecurity/CCNA Certification Concentration (C1), (CIS.CNA.CERT). (nine semester credits)**

| | | |
|---|---|---|
| CIS 227# | Vulnerability Analysis & Ethical Hacking | 3 |
| CIS 212 ◊# | Internetworking, Routing and Switching | 3 |
| CIS 176 ◊ | LAN Administration: Windows Server | 3 |
| | OR | |
| CIS 179 ◊# | Linux System Administration | 3 |
| | OR | |
| CIS 236 ◊ | Introduction to Wireless LAN Administration | 3 |

**Subtotal: 9**

*CIS 210◊ and CIS 212◊: Prepares the student for CISCO's Certified Network Administrator Exam.*

**Information Assurance Policy and Administration Concentration (C2), (CIS.CYB.CERT), (six semester credits)**

| | | |
|---|---|---|
| CIS 229# | Information Assurance Ethics, Management and Policy | 3 |
| CIS 231# | Information Assurance Risk, Continuity and Governance | 3 |

**Subtotal: 6**

**Cyber Forensics Concentration (C3), (CIS.CYF.CERT), (six semester credits)**

| | | |
|---|---|---|
| CIS 238 ◊# | Introduction to Computer Forensics | 3 |
| CIS 240 ◊# | Advanced Computer Forensics | 3 |

**Subtotal: 6**

**Total Credit Hours: 18-21**

*See CIS course descriptions* (p. 196).

***Note:*** *Semester One Option: CIS 102, CIS 210◊, CIS 220◊, CIS 277◊*
*Semester Two+ Option: CIS 226◊, Concentration Selections.*

**Coordinator:** David Anderson, Ext. 3349

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/CybersecurityAndInformationAssuranceCertificate/11.1003-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Database Systems Certificate

**Curriculum CIS.DBS.CERT (C407V)**

The Database Systems Certificate is designed to provide students with the skills necessary to obtain an entry-level position, including database administrator, data manager, and data analyst.

Upon successful completion of the Database Systems Certificate program, the graduate will be able to:

- install, configure, and manage enterprise database systems in Windows or Linux environments;
- prepare datasets of unstructured and structured data using standard data types and formats;
- design and implement databases in several types of database management systems; and
- query and analyze databases with Structured Query Language (SQL).

**Expected Background/Prerequisite Coursework:**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | AND | |
| CIS 121 ◊# | Introduction to Programming | 3 |

*or equivalent work experience.*

**Required Courses**

| | | |
|---|---|---|
| CIS 120# | Introduction to Big Data | 3 |
| CIS 174 ◊ | Windows Client-Server Systems Administration | 3 |
| CIS 177 ◊ | Introduction to Linux | 3 |
| CIS 278 ◊# | Database Management Systems | 3 |

**Choose 2 courses (6 credit hours) from the following:**

| | | |
|---|---|---|
| CIS 157 ◊ | Microsoft Access I | 3 |
| CIS 167 ◊# | Microsoft Access II | 3 |
| CIS 215# | Data Science Application Development | 3 |
| CIS 262 ◊# | Oracle DBMS Development | 3 |

**Subtotal: 18**

**Total Credit Hours: 18**

*See CIS course descriptions* (p. 196).

**Coordinator:** David Anderson, Ext. 3968

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/DatabaseSystemsCertificate/11.1099-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Geographic Information Systems Certificate

**Curriculum CIS.GEO.CERT (C407X)**

The Geographic Information Systems (GIS) Certificate prepares students for employment as GIS Technicians, GIS Analysts, and GIS Developers.

Upon successful completion of the Geographic Information Systems Certificate program, the graduate will be able to:

- use basic cartographic principles for the development of GIS applications;
- use GIS software to analyze spatial and geographic information;
- prepare and manage datasets and data formats for geographic information; and
- create visualizations for map documents, web, and mobile device maps.

**Expected Background/Prerequisite Coursework:**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | AND | |
| CIS 121 ◊# | Introduction to Programming | 3 |

*or equivalent work experience*

**Required Courses**

| | | |
|---|---|---|
| CIS 102# | Professional Information Technology and Computer Science | 3 |
| CIS 104# | Geographic Information Systems Fundamentals | 3 |
| CIS 204# | Geographic Information Systems Analysis and Projects | 3 |
| CIS 278 ◊# | Database Management Systems | 3 |
| GEO 201 ◊ | Physical Geography: Maps and Land Forms | 4 |

**Subtotal: 16**

**Total Credit Hours: 16**

*See CIS course descriptions* (p. 196).

**Coordinator:** David Anderson, Ext. 3968

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/GeographicInformationSystemsCertificate/11.0202-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Mobile, Web and Data Science Application Development Certificate

**Curriculum CIS.MWB.CERT (C407T)**

The certificate in Mobile, Web, and Data Science Application Development prepares students for employment as web, mobile, and data science application developers.

Upon successful completion of the Mobile, Web, and Data Science Application Development Certificate program, the graduate will be able to:

- develop applications in multiple languages on multiple platforms;
- prepare and deploy applications with enterprise toolsets and environments;
- use scalable database and data storage methods to serve and process application data and large datasets; and
- use modern software development practices and methods to create and maintain applications and solutions.

**Expected background/Prerequisite Coursework for Students without Computing Backgrounds:**

| | | |
|---|---|---|
| CIS 102# | Professional Information Technology and Computer Science | 3 |
| CIS 121 ◊# | Introduction to Programming | 3 |

**Required Courses**

| | | |
|---|---|---|
| CIS 220 ◊# | Introduction to Network Security | 3 |
| CIS 263 ◊# | Introduction to Object Oriented Programming | 3 |

**Subtotal: 6**

**Apple IOS Platform Mobile Application Development Concentration (CIS.AMA.CERT) (ten semester credits)**

| | | |
|---|---|---|
| CIS 130# | iPhone Operating System (IOS) Application Development I | 3 |
| CIS 221# | iPhone Operating System (IOS) Application Development II | 3 |
| CIS 268# | Mobile & Web Backend Service Development | 3 |
| CIS 269# | Capstone Project in Mobile & Web Application Development | 1 |

**Subtotal: 10**

**Android Platform Mobile Application Development Concentration (CIS.DMA.CERT) (ten semester credits)**

| | | |
|---|---|---|
| CIS 103# | Android Platform Application Development I | 3 |
| CIS 200# | Android Application Development II | 3 |
| CIS 268# | Mobile & Web Backend Service Development | 3 |
| CIS 269# | Capstone Project in Mobile & Web Application Development | 1 |

**Subtotal: 10**

**Data Science and Big Data Concentration (CIS.DAT.CERT) (ten semester credits)**

| | | |
|---|---|---|
| CIS 120# | Introduction to Big Data | 3 |
| CIS 215# | Data Science Application Development | 3 |
| CIS 262 ◊# | Oracle DBMS Development | 3 |
| CIS 269# | Capstone Project in Mobile & Web Application Development | 1 |

**Subtotal: 10**

**Microsoft Certified Solutions Development Concentration (CIS.SOL.CERT) (ten semester credits)**

| | | |
|---|---|---|
| CIS 111# | ASP.NET Web Application Development | 3 |
| CIS 190 ◊# | Web Site Development | 3 |
| CIS 206# | ASP.NET Cloud and Service Development | 3 |
| CIS 269# | Capstone Project in Mobile & Web Application Development | 1 |

**Subtotal: 10**

**Web Application Development Concentration (CIS.WBA.CERT) (ten semester credits)**

| | | |
|---|---|---|
| CIS 189 ◊ | Internet Foundations | 3 |
| CIS 190 ◊# | Web Site Development | 3 |
| CIS 268# | Mobile & Web Backend Service Development | 3 |
| CIS 269# | Capstone Project in Mobile & Web Application Development | 1 |

**Subtotal: 10**

**Total Credit Hours: 16**

*See CIS course descriptions* (p. 196).

**Coordinator:** David Anderson, Ext. 3349

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/MobileWebAndDataScienceApplicationDevelopmentCertificate/11.0801-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Network Management Certificate

**Curriculum CIS.NTM.CERT (C407M)**

The Network Management certificate is designed to provide students with the skills necessary to obtain an entry-level position in network planning, installation, security and administration. The certificate prepares students for CISCO networking certifications, including CISCO Certified Entry Networking Technician (CCENT) and CISCO Administrator (CCNA).

Upon successful completion of the Network Management Certificate program, the graduate will be able to:

- administer and maintain a computer network;
- configure and deploy network protocols and appliances;
- plan and design network topologies; and
- control traffic, access and security on networks.

**Expected Background/Prerequisite Coursework:**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | *or equivalent experience* | |

**Core Courses**

| | | |
|---|---|---|
| CIS 174 ◊ | Windows Client-Server Systems Administration | 3 |
| | OR | |
| CIS 177 ◊ | Introduction to Linux | 3 |
| CIS 210 ◊# | Data Communications & Networking Fundamentals | 3 |

| | | |
|---|---|---|
| CIS 212 ◊# | Internetworking, Routing and Switching | 3 |
| CIS 214# | Scaling & Connecting Networks | 3 |
| CIS 236 ◊ | Introduction to Wireless LAN Administration | 3 |
| CIS 277 ◊# | Command Processing and Scripting | 3 |

**Total Credit Hours: 18**

*See CIS course descriptions* (p. 196).

**Coordinator:** David Anderson, Ext. 3349

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/NetworkManagementCertificate/11.1001-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Office Applications Certificate–Prep for Microsoft Certification

**Curriculum CIS.OAP.CERT (C407O)**

Designed to prepare the student to take the Microsoft Certified Applications Specialist (MCAS) exam in all of the following areas: Word, Excel, Access, PowerPoint and Vista.[1]

**Semester One**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | OR | |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |

**Subtotal: 3**

**Semester Two**

| | | |
|---|---|---|
| CIS 150 ◊# | Computer Systems Applications | 3 |

**Subtotal: 3**

**Total Credit Hours: 6**

*See CIS course descriptions* (p. 196).

[1]Credit for BUS 107◊, CIS 101◊ and CIS 150◊ will not be granted towards this certificate if taken prior to Fall 2007.

**Coordinator:** David Anderson, Ext. 3349

## Systems Administration Certificate

**Curriculum CIS.SYA.CERT (C407Y)**

The certificate in Systems Administration prepares students for employment as system administrators, system analysts, support personnel and Information Technology (IT) technicians. Prepares students for industry certification exams in IT infrastructure, including Microsoft Technology Associate (MTA) in IT infrastructure, Microsoft Certified Solutions Associate (MCSA) in Windows Server and MCSA in Linux on Azure.

Upon successful completion of the Systems Administration Certificate program, the graduate will be able to:

- deploy, manage, and troubleshoot information technology infrastructure;
- configure and manage client-server protocols and systems;
- configure and manage infrastructure access controls, permissions, security and identity;
- plan and execute infrastructure migrations, upgrades, backup, and recovery; and
- manage software, services, and network interfaces for common business scenarios and infrastructure.

**Expected Background/Prerequisite Coursework:**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | *or equivalent work experience* | |

**Required Courses**

| | | |
|---|---|---|
| CIS 174 ◊ | Windows Client-Server Systems Administration | 3 |
| CIS 176 ◊ | LAN Administration: Windows Server | 3 |
| CIS 177 ◊ | Introduction to Linux | 3 |
| CIS 222 ◊# | Administering Network Infrastructure | 3 |
| CIS 224 ◊# | Managing a Network Environment | 3 |
| CIS 228 ◊# | Administering Directory Services | 3 |

**Subtotal: 18**

**Total Credit Hours: 18**

*See CIS course descriptions* (p. 196).

**Coordinator:** David Anderson, Ext. 3968

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/SystemsAdministrationCertificate/11.1001-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Web Technologies Certificate

**Curriculum CIS.WEB.CERT (C407J)**

The Web Technologies certificate is designed to provide the student with the skills necessary to design, deploy and maintain a website. The student will create web pages using a popular software authoring tool, as well as utilizing various markup languages. Lastly, the material covers the information tested for the CIW (Certified Internet Webmaster) certification exam.

**Take:**

| | | |
|---|---|---|
| CIS 110 | Social Networking and Web 2.0 | 3 |
| CIS 189 ◊ | Internet Foundations | 3 |
| CIS 190 ◊# | Web Site Development | 3 |
| CIS 210 ◊# | Data Communications & Networking Fundamentals | 3 |
| VIC 100 ◊ | Graphic Design | 3 |
| VIC 172 ◊# | Web Page Design | 3 |

**Total Credit Hours: 18**

*See CIS course descriptions* (p. 196) *and VIC course descriptions* (p. 275).

**Coordinator:** David Anderson, Ext. 3349

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/WebTechnologiesCertificate/11.0801-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an Email to: finaid@triton.edu.

## Windows Programming Advanced Certificate

**Curriculum CIS.WPA.CERT (C515C)**

The Computer Information Systems Windows Programming Advanced Certificate is designed for current data processing professionals who want exposure to the fundamentals of windows programming.

Completion of standard data processing course work or job experience in programming is expected.

**Expected background:**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| CIS 121 ◊# | Introduction to Programming | 3 |

**Semester One**

| | | |
|---|---|---|
| CIS 253 ◊# | Advanced Visual Basic Programming | 3 |
| CIS 255 ◊# | C++ Programming | 3 |

**Subtotal: 6**

**Semester Two**

| | | |
|---|---|---|
| CIS 264 ◊# | C# Programming | 3 |
| CIS 295 ◊# | Data Structures With C++ | 3 |

**Subtotal: 6**

**Total Credit Hours: 12**

*See CIS course descriptions* (p. 196).

**Coordinator:** David Anderson, Ext. 3349

## Construction Technology

## Construction Technology, Associate in Applied Science

(formerly Independent Building Contractor)

**Curriculum ARC.IBC.AAS (C235A)**

Construction Technology combines a hands-on construction program with technical course study. Students will receive hands-on training in trades like carpentry, plumbing, and electricity, as well as obtain the engineering and construction skills to plan, organize, solve problems and communicate well in the execution of building projects. Students will develop financial and business knowledge to become a construction technician. Construction Technology allows students to specialize in their area of interest. Graduates could enter as project coordinators with contractors and engineers, building departments, developers and construction-related fields. The program is designed to provide student with the skills and coursework necessary to transfer to a four-year college or university if they choose.

Upon completion of this degree, the student will be able to:

- read and understand blueprint drawings;
- follow all building codes and safety procedures;
- draw and analyze construction documents;
- learn and apply state codes, laws and building regulations;
- understand and use sustainable building products;
- understand various construction technologies and how they work together to create a building;
- develop critical thinking skills to be successful in the industry;
- estimate small construction projects; and
- have the opportunity to advance in their career and continue professional development through four-year transfer programs.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| ARC 104 | Introduction to Architecture | 3 |
| ARC 110 ◊# | Materials, Methods and Sustainability I | 3 |
| ARC 189 ◊ | AutoCAD & 3D Computer Modeling | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | General education/Social or Behavioral Sciences or Humanities or Fine Arts | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| ARC 220# | Materials, Methods & Sustainability II | 3 |
| COT 107 ◊ | Codes, Specifications and Print Reading | 3 |
| COT 142 ◊ | Construction Contract Documents | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Social or Behavioral Sciences or Humanities or Fine Arts | 3 |
| | **Subtotal: 15** | |

*RHT 101◊, SPE 101◊: Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Three**

| | | |
|---|---|---|
| ARC 210 ◊# | History of Architecture I | 3 |
| ARC 261 ◊ | Revit | 4 |
| MAT 110 ◊# | College Algebra | 5 |
| | OR | |
| MAT 111 ◊# | Pre-Calculus | 5 |
| | OR | |
| MAT 131 ◊# | Calculus & Analytic Geometry I | 5 |
| | Program electives | 3 |
| | **Subtotal: 15** | |

**Semester Four**

| | | |
|---|---|---|
| ARC 214 ◊# | History of Architecture II | 3 |
| ARC 280 ◊# | Materials, Methods & Sustainability III | 3 |
| COT 258 ◊ | Construction Cost Estimating | 3 |
| | Program electives | 6 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 60** | |

Program electives (9): ARC 102, COT 106, COT 111, COT 206, COT 210, COT 211◊, COT 248◊, ENT 104◊, ENT 201, ENT 202

*See ARC course descriptions* (p. 183)*; BUS course descriptions* (p. 191)*; COT course descriptions* (p. 208).

*See Humanities and Social or Behavioral Sciences General Education requirements* (p. 101).

**Coordinator:** Frances Figg, Ext. 3129;
email: francesfigg@triton.edu

## Carpentry Certificate

**Curriculum ARC.CPT.CERT (C446G)**

The Carpentry certificated is designed for students who wish to concentrate solely on hands-on construction skills. Graduates are prepared for entry-level carpentry positions in a residential setting.

**Semester One (Fall)**

| | | |
|---|---|---|
| ARC 104 | Introduction to Architecture | 3 |
| COT 106 | Carpentry: Rough Carpentry | 3 |
| COT 107 ◊ | Codes, Specifications and Print Reading | 3 |
| | **Subtotal: 9** | |

**Semester Two (Spring)**

| | | |
|---|---|---|
| ARC 102 | OSHA 10-Hour Construction Training | 1 |
| COT 142 ◊ | Construction Contract Documents | 3 |
| COT 206 | Carpentry: Finished Carpentry | 3 |
| | **Subtotal: 7** | |
| | **Total Credit Hours: 16** | |

*See ARC course descriptions* (p. 183)*; COT course descriptions* (p. 208).

**Coordinator:** Frances Figg, Ext. 3129,
email: francesfigg@triton.edu

## Plumbing Certificate

**Curriculum ARC.PLM.CERT (C446H)**

The Plumbing certificate is designed for students who wish to concentrate solely on hands-on construction skills. Graduates are prepared for entry-level plumbing positions in a residential setting.

**Semester One (Fall)**

| | | |
|---|---|---|
| ARC 102 | OSHA 10-Hour Construction Training | 1 |
| ARC 104 | Introduction to Architecture | 3 |
| COT 107 ◊ | Codes, Specifications and Print Reading | 3 |
| COT 111 | Plumbing Fixtures, Valves & Faucets | 3 |
| | **Subtotal: 10** | |

**Semester Two (Spring)**

| | | |
|---|---|---|
| COT 142 ◊ | Construction Contract Documents | 3 |
| COT 210 | Plumbing: Fixture Installation | 3 |
| COT 211 | Plumbing: Fixture Repair | 3 |
| | **Subtotal: 9** | |
| | **Total Credit Hours: 19** | |

*See ARC course descriptions* (p. 183)*; COT course descriptions* (p. 208).

**Coordinator:** Frances Figg, Ext. 3129, email:
francesfigg@triton.edu

# Criminal Justice Administration

# Criminal Justice Administration, Associate in Applied Science

**Curriculum CJA.CJA.AAS (C243A)**

The American system of Criminal Justice is comprised of three major components: law enforcement, courts and correctional systems at community, county, state and federal levels.

Criminal Justice Administration is a comprehensive field with career opportunities in several areas: law enforcement; probation, parole and corrections; social-justice services; and security and loss prevention. Prepares students for careers in public and private agencies in the social and criminal justice system. The two-year program includes the study of contemporary and advanced problems in modern law enforcement, as well as criminal justice systems, administration, criminal laws and procedures, police and community relations, and criminalistics.

Students who wish to become probation, parole or corrections officers will receive the necessary foundation through this program. The study of law, social and justice agencies, and criminal offenders is included, with emphasis on corrections.

Study of careers in the social-justice services includes such agencies as the Department of Children and Family Services, Public Aid, Corrections, and psychiatric and medical agencies.

Private Security is an emerging career field in need of personnel with qualified credentials. The Criminal Justice program provides courses to prepare students for entry-level security, armed and unarmed. Areas of employment include corporate, industrial and homeland security, hospital, airline, bank, railroad, as well as college and university security.

Students planning additional study at a four-year college or university should enroll in the Associate in Science (CJA.CJA.AS (U230A43)) (p. 83) or the Associate in Arts degree programs (CJA.CJA.AA, (U224A43) (p. 58), which requires a concentration of general education courses combined with selected core criminal justice courses and electives.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| CJA 111 ◊ | Introduction to Criminal Justice | 3 |
| CJA 121 ◊ | Introduction to Corrections | 3 |
| CJA 148 ◊ | Police/Community Relations | 3 |
| CJA 161 ◊ | Administration of Justice | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| CJA 171 ◊ | Patrol Administration | 3 |
| CJA 175 | Report Writing for Criminal Justice | 3 |
| CJA 181 ◊ | Juvenile Delinquency & Law | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | Electives | 3 |
| | **Subtotal: 15** | |

*RHT 101◊, SPE 101◊: Students must complete either RHT 101◊ and SPE 101◊, or RHT 101◊ with RHT 102◊. Students interested in transferring are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Three**

| | | |
|---|---|---|
| CJA 201 ◊# | Criminology | 3 |
| CJA 219 ◊# | Criminal Law I | 3 |
| CJA 257 ◊# | Law Enforcement Administration | 3 |
| | General education/Mathematics and/or Science | 3-4 |
| | General education/Social and Behavioral Science | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| | OR | |
| SOC 100 ◊ | Introduction to Sociology | 3 |

**Choose from:**

| | | |
|---|---|---|
| PSY 100 ◊ | Introduction to Psychology | 3 |
| | OR | |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| | General education/Mathematics and/or Science | 3-4 |
| | **Subtotal: 15-16** | |

**Semester Four**

| | | |
|---|---|---|
| CJA 236 ◊# | Criminal Law II | 3 |
| CJA 241 ◊ | Traffic Enforcement & Administration | 3 |
| CJA 246 ◊# | Laws of Evidence | 3 |
| CJA 298 ◊# | Law Enforcement Administration II | 3 |
| PHL 103 ◊ | Ethics | 3 |
| | OR | |
| PHL 105 ◊ | World Religions | 3 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 60-61** | |

*See CJA course descriptions* (p. 204).

*See Humanities and Mathematics and/or Science General Education requirements* (p. 101).

*Recommended electives (3): CJA 106◊, CJA 107◊, CJA 115◊, CJA 116◊, CJA 117◊, CJA 118◊, CJA 125◊, CJA 127◊, CJA*

*131◊, CJA 140◊ CJA 166◊, CJA 205◊, CJA 296◊, CIS 100◊, CIS 101◊; CWE 290◊, CWE 291◊; PED 106◊, PED 120◊; SOC 131◊, SOC 225◊; PHL 101◊, PHL 103◊*

***Note:*** *Upon petition, students successfully completing professional-training courses sponsored or sanctioned by the Illinois Law Enforcement Training and Standards Board, or an equivalent accrediting agency, may receive up to 24 hours of credit. All documentation, including official transcripts, course descriptions, and course outlines, will be reviewed by the program coordinator to determine the number of hours of credit to be granted toward the Associate in Applied Science degree or certificate.*

**Coordinator:** Gregory Catena, Ext. 3327

# Criminal Justice Administration Corrections Certificate

**Curriculum CJA.COR.CERT (C443A)**

This program prepares students for entry-level positions in corrections or related fields.

| | | |
|---|---|---|
| **Semester One** | | |
| CJA 111 ◊ | Introduction to Criminal Justice | 3 |
| CJA 121 ◊ | Introduction to Corrections | 3 |
| CJA 125 ◊ | Principles of Probation & Parole | 3 |
| CJA 127 ◊ | Correctional Counseling | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| | | **Subtotal: 15** |
| **Semester Two** | | |
| CJA 131 ◊ | Correctional Procedures | 3 |
| CJA 161 ◊ | Administration of Justice | 3 |
| CJA 181 ◊ | Juvenile Delinquency & Law | 3 |
| CJA 201 ◊# | Criminology | 3 |
| | | **Subtotal: 12** |
| | | **Total Credit Hours: 27** |

*See CJA course descriptions* (p. 204).

**Coordinator:** Gregory Catena, Ext. 3327

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/CriminalJusticeAdministrationCorrectionsCertificate/43.0113-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Criminal Justice Administration Law Enforcement Certificate

**Curriculum CJA.LAE.CERT (C443B)**

Designed to improve the job-related skills of persons already engaged in the field of criminal justice by providing an opportunity to concentrate on courses, which relate directly to their career needs or to prepare for an entry-level position in law enforcement or associated fields. Provides the student with sufficient coursework towards earning the Associate in Applied Science in Criminal Justice Degree.

| | | |
|---|---|---|
| **Semester One** | | |
| CJA 107 | Stress Manage in Law Enforcement (SMILE) | 3 |
| CJA 111 ◊ | Introduction to Criminal Justice | 3 |
| CJA 171 ◊ | Patrol Administration | 3 |
| | Program electives | 6 |
| | | **Subtotal: 15** |
| **Semester Two** | | |
| CJA 166 ◊ | Criminal Investigation | 3 |
| CJA 181 ◊ | Juvenile Delinquency & Law | 3 |
| CJA 219 ◊# | Criminal Law I | 3 |
| | Program electives | 3 |
| | | **Subtotal: 12** |
| **Program electives (9):** | | |
| CJA 115 ◊ | Professional Skills: Private Security-Basic & Firearm Training | 3 |
| CJA 116 ◊ | Current Security Problems | 3 |
| CJA 117 ◊ | Introduction to Private Security | 3 |
| CJA 118 ◊ | Security Administration | 3 |
| CJA 148 ◊ | Police/Community Relations | 3 |
| CJA 161 ◊ | Administration of Justice | 3 |
| CJA 241 ◊ | Traffic Enforcement & Administration | 3 |
| CJA 257 ◊# | Law Enforcement Administration | 3 |

*CJA 115◊, CJA 116◊, CJA 117◊, CJA 118◊: Appropriate choice for students interested in private police security.*

**Total Credit Hours: 27**

*See CJA course descriptions* (p. 204).

**Coordinator:** Gregory Catena, Ext. 3327

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/CriminalJusticeAdministrationLawEnforcementCertificate/43.0103-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Criminal Justice Administration Private Security Certificate

**Curriculum CJA.PST.CERT (C443C)**

The Criminal Justice Administration Private Security certificate program is designed for students who wish to specialize in the expanding field of corporate or private security.

**Semester One**

| | | |
|---|---|---|
| CJA 115 ◊ | Professional Skills: Private Security-Basic & Firearm Training | 3 |
| CJA 116 ◊ | Current Security Problems | 3 |
| | OR | |
| CJA 118 ◊ | Security Administration | 3 |
| CJA 117 ◊ | Introduction to Private Security | 3 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| | **Subtotal:** | **11** |
| | **Total Credit Hours:** | **11** |

*See CJA course descriptions* (p. 204).

***Note:*** *CJA 115◊ will meet the requirements outlined in the Private Detective and Private Security Act of 1983. It is approved by the Department of Education and Registration.*

**Coordinator:** Gregory Catena, Ext. 3327

# Diagnostic Medical Sonography

*(See Diagnostic Medical Sonography* (p. 171) *in the Selective Admission Health Program section)*

# Early Childhood Education

# Early Childhood Credential Transfer Pathway Level IV, Associate in Applied Science

(formerly Early Childhood Education)

**Curriculum EDU.ECE.AAS (C220A)**

The field of early childhood education is filled with many exciting career opportunities! Potential careers include working directly with young children and their families through teaching in public and private schools, Head Start programs, child care centers, and family child care homes. Career opportunities also include supporting those who work directly with young children in occupations that include administration, curriculum development, policy advocates and lobbyists, coaches and mentors, licensing representatives, and providers of professional development. Our state and nation is currently facing a critical need for well-prepared early childhood practitioners, with an anticipated growth in career opportunities of 14% (U.S. Bureau of Labor Statistics Occupational Outlook Handbook, 2014).

At Triton College, we have a variety of pathways designed to support your professional growth. Whether you are interested in earning a Gateways Credential or are planning to transfer to a four-year program, we have the courses and opportunities to meet your education and career needs.

Our courses are designed around the following 3 Pathways: Career Pathways, Credential Continuing, and Credential Transfer.

The ECE Career Pathway Certificate is designed for students who are in the field or seeking immediate employment and are pursuing Gateways Credentials to secure employment or progress within a current role. This pathway is designed with convenient on and off ramps—you can pursue a Level 2 Credential, for example, then later decide that you would like to attain your Level 3 Credential.

The ECE Credential Continuing Pathway Certificate or degree is designed for students who are seeking employment and/or working in the field and who plan on progressing through each of the credentials with the goal of attaining their A.A.S. Courses are laid out in a three to four semester sequence, with milestones of credential attainment marked along the way.

The ECE Credential Transfer Pathway is designed for students who are planning to transfer to a four-year university. This sequence of courses supports the attainment of the Level 3 Gateways Credential and either the A.A. or A.S. degree, and maximizes the number of courses that will directly transfer to a partnering four-year institution.

Each of our Pathways is designed to support the attainment of Gateways Credentials. The Gateways Credential is recognized by the Illinois Department of Human Services Bureau of Child the Care and Development. Credentials are required for varied Circles of Quality in ExceleRate Illinois and can be used as a prerequisite for employment within early learning programs. To earn your Level 2-4 ECE Gateways Credential, you are required to follow a prescribed course of study.

Daytime morning field experiences are requirements for all ECE classes, progressing from basic observation to a supervised observation/preparation class which precedes student teaching in the Lab School at Triton College.

College and state medical assessments and background inquiry checks are required of all individuals working with young children.

All program electives may not transfer to four year colleges/universities.

The Early Childhood Credential Continuing Pathway Degree is designed for students who are taking early childhood courses to attain a Gateway Level 4 credential to meet ExceleRate/employer requirements with attainment of the A.A.S. as an end goal.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| ECE 110 ◊ | Early Child Development | 3 |
| ECE 111 ◊ | Introduction to Early Childhood Education | 3 |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| | OR | |
| MAT 117 ◊# | Math for Elementary School Teachers II | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |

**Recommended:**

| | | |
|---|---|---|
| PSY 100 ◊ | Introduction to Psychology | 3 |
| | | **Subtotal: 15** |

**Semester Two**

| | | |
|---|---|---|
| ECE 118 ◊# | Health, Nutrition & Safety | 3 |
| ECE 121 ◊# | Language Development & Activities | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |

**General education (recommended):**

| | | |
|---|---|---|
| ART 110 ◊ | Looking at Art | 3 |
| PHL 101 ◊ | Introduction to Philosophy | 3 |
| | OR | |
| PHL 105 ◊ | World Religions | 3 |
| | Elective | 1 |
| | | **Subtotal: 16** |

**Semester Three**

| | | |
|---|---|---|
| ECE 138 ◊# | Observation, Assessment, Curriculum and Guidance of Young Children | 3.5 |
| ECE 146 ◊# | Child, Family & Community | 2 |
| ECE 231 ◊# | Science and Math for Children | 3 |
| ECE 233 ◊# | Creative Activities for the Young Child | 3 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| MUS 110 ◊ | Listening to Music | 3 |
| | | **Subtotal: 16.5** |

**Semester Four**

| | | |
|---|---|---|
| ECE 142 ◊# | Students With Disabilities in School | 3 |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| | OR | |
| SOC 100 ◊ | Introduction to Sociology | 3 |

**Electives (strongly suggested for credential, but may not transfer):**

| | | |
|---|---|---|
| ECE 251 ◊# | Practicum | 4 |
| ECE 252 ◊# | Seminar | 3 |
| | | **Subtotal: 13** |
| | | **Total Credit Hours: 60.5** |

*See ECE course descriptions* (p. 212).

*See Humanities and Social or Behavioral Science General Education* (p. 101) *and Associate in Arts degree requirements for Physical or Life Sciences or Mathematics requirements* (p. 55).

***Note:*** *A minimum grade of "C" is a requirement for each ECE course in all ECE programs.*

**Chairperson:** Mary Ann Olson, Ext. 3978

## Early Childhood Credential Continuing Pathway Certificate Level III

(formerly Early Childhood Education Certificate)

**Curriculum EDU.ECE.CERT (C320A)**

The Early Childhood Credential Continuing Pathway Certificate is designed for students who are taking early childhood courses to attain a Gateway Level 3 Credential to meet ExceleRate/employer requirements. Each Level is designed for credential attainment and progression to the next level of credential, with attainment of the AAS as an end goal.

Daytime field experiences are requirements for all ECE classes, progressing from basic observation to a supervised observation/preparation class which precedes student teaching in the lab school at Triton College.

College and state medical assessments and background inquiry checks are required of all individuals working with young children.

All program electives may not transfer to four year colleges/universities.

**Semester One**

| | | |
|---|---|---|
| ECE 110 ◊ | Early Child Development | 3 |
| ECE 111 ◊ | Introduction to Early Childhood Education | 3 |
| MAT 116 ◊# | Math for Elementary School Teachers I | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | | **Subtotal: 12** |

**Semester Two**

| | | |
|---|---|---|
| ECE 118 ◊# | Health, Nutrition & Safety | 3 |
| ECE 142 ◊# | Students With Disabilities in School | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| | Program electives | 3 |
| | | **Subtotal: 12** |

**Semester Three**

| | | |
|---|---|---|
| ECE 138 ◊# | Observation, Assessment, Curriculum and Guidance of Young Children | 3.5 |
| ECE 146 ◊# | Child, Family & Community | 2 |
| | | **Subtotal: 5.5** |

**Program electives (3):**

| | | |
|---|---|---|
| ECE 121 ◊# | Language Development & Activities | 3 |
| ECE 231 ◊# | Science and Math for Children | 3 |
| ECE 233 ◊# | Creative Activities for the Young Child | 3 |

**Total Credit Hours: 29.5**

***Note:*** *A minimum grade of "C" is required for each ECE course in all ECE programs.*

*See ECE course descriptions* (p. 212).

**Chairperson:** Mary Ann Olson, Ext. 3978

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EarlyChildhoodCredentialContinuingPathwayCertificateLevelIII/19.0709-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Early Childhood Career Pathway Certificate Level II

(formerly Child Development CDA Preparation Certificate)

**Curriculum ECE.CDA.CERT (C420C)**

The Early Childhood Career Pathway Certificate is designed for students enrolled in early childhood to attain a Gateway Level 2 Credential to meet ExceleRate/employer requirements. The Early Childhood Career Pathway Certificate is designed for students seeking immediate employment and are pursuing Gateways Credentials to secure employment or progress within a current role. This pathway is designed with stackable course offerings so students can progress within the credentialing program.

Daytime field experiences are requirements for all ECE classes, progressing from basic observation to a supervised observation/preparation class which precedes student teaching in the Lab School at Triton College.

College and state medical assessments and background inquiry checks are required of all individuals working with young children.

All program electives may not transfer to four year colleges/universities.

### CDA Preparation Core

**Semester One**

| | | |
|---|---|---|
| ECE 110 ◊ | Early Child Development | 3 |
| ECE 111 ◊ | Introduction to Early Childhood Education | 3 |
| ECE 153 ◊ | Guiding Children and Managing the Classroom | 1 |

**Subtotal: 7**

**Semester Two**

| | | |
|---|---|---|
| ECE 118 ◊# | Health, Nutrition & Safety | 3 |
| ECE 138 ◊# | Observation, Assessment, Curriculum and Guidance of Young Children | 3.5 |
| ECE 142 ◊# | Students With Disabilities in School | 3 |
| ECE 146 ◊# | Child, Family & Community | 2 |

**Subtotal: 11.5**

**Total Credit Hours: 18.5**

***Note:*** *A minimum grade of "C" is required as a prerequisite for each ECE course in all ECE programs.*

*See ECE course descriptions* (p. 212).

**Chairperson:** Mary Ann Olson, Ext. 3978

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EarlyChildhoodCareerPathwayCertificateLevelII/19.0709-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Infant/Toddler Care Certificate

**Curriculum EDU.ITC.CERT (C420B)**

The Infant/Toddler certificate program is designed for students wishing to prepare for entry-level positions in infant-care centers. The program's emphasis is on infant/toddler development and creating appropriate environments and programs. A supervised, practical experience in an infant center will be an important component of the program.

Field experiences are requirements in all ECE classes, progressing from basic observations to a supervised observation/participation class, in program-approved and licensed Early Childhood programs. Experiences include working with children and families, curriculum development, team-teaching responsibilities, classroom management and guidance techniques.

The Triton College Infant/Toddler Care Certificate leads to a level 4 Gateways Illinois Infant/Toddler Credential upon completion of the following courses and an associate in applied science degree in Early Childhood Education.

**Semester One**

| | | |
|---|---|---|
| ECE 110 ◊ | Early Child Development | 3 |
| ECE 111 ◊ | Introduction to Early Childhood Education | 3 |
| ECE 115 ◊ | Infant Toddler Development | 3 |
| HTH 281 ◊ | First Aid & CPR | 2 |

**Subtotal: 11**

**Semester Two**

| | | |
|---|---|---|
| ECE 118 ◊# | Health, Nutrition & Safety | 3 |
| ECE 122 ◊# | Infant/Toddler Care and Curriculum | 3 |
| ECE 142 ◊# | Students With Disabilities in School | 3 |
| ECE 146 ◊# | Child, Family & Community | 2 |

**Subtotal: 11**

**Total Credit Hours: 22**

***Note:*** *A minimum grade of "C" is required as a prerequisite for each ECE course in all ECE programs.*

*See ECE course descriptions* (p. 212).

**Chairperson:** Mary Ann Olson, Ext. 3978

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/InfantToddlerCareCertificate/19.0709-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Early Childhood Administration and Management Advanced Certificate

**Curriculum EDU.CCA.CERT (C520A)**

The Early Childhood director is responsible for the management of a licensed child care facility. A quality ECE director provides supervision and supports development of center staff. The director develops program goals and objectives to mirror the program philosophy, develops and maintains budgets, facilitates family involvement and coordinates relationships between home and school.

Students will be involved in opportunities to develop techniques in observation and assessment of children and staff, as well as evaluation and goal setting with staff. Curriculum development and implementation, as well as positive guidance techniques are incorporated in most classes. Emphasis is on quality programming reflecting DCFS licensing standards, NAEYC Accreditation, Early Childhood Illinois Professional Teaching Standards and Illinois Early Learning Standards.

Field experiences are requirements in all ECE classes, progressing from basic observations to a supervised observation/participation class, in program-approved and licensed early childhood programs. Experiences include working with children and families, curriculum, team-teaching responsibilities, classroom management and guidance techniques.

The program is open to students desiring to meet the Department of Children and Family Services requirements for a child care director.

**Program prerequisites: A minimum of an associate degree of 60-65 college semester hours from an approved college or university and approval of the program coordinator.**

The Triton College Early Childhood Administration certificate is pending entitlement approval leading to a level 4 Gateways 'Illinois Director's Credential'.

**Semester One**

| | | |
|---|---|---|
| ECE 110 ◊ | Early Child Development | 3 |
| ECE 111 ◊ | Introduction to Early Childhood Education | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HTH 281 ◊ | First Aid & CPR | 2 |

**Subtotal: 10**

**Semester Two**

| | | |
|---|---|---|
| ECE 118 ◊# | Health, Nutrition & Safety | 3 |
| ECE 121 ◊# | Language Development & Activities | 3 |
| ECE 142 ◊# | Students With Disabilities in School | 3 |
| ECE 146 ◊# | Child, Family & Community | 2 |
| ECE 250 ◊# | Administration & Supervision of Early Childhood Programs | 3 |

**Subtotal: 14**

**Semester Three**

| | | |
|---|---|---|
| ECE 138 ◊# | Observation, Assessment, Curriculum and Guidance of Young Children | 3.5 |

**Subtotal: 3.5**

**Total Credit Hours: 27.5**

***Note:*** *A minimum grade of "C" is a requirement for each ECE course in all ECE programs.*

*See ECE course descriptions* (p. 212).

**Chairperson:** Mary Ann Olson, Ext. 3978

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EarlyChildhoodAdministrationAndManagementAdvancedCertificate/19.0709-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Paraprofessional Educator Associate

# Paraprofessional Educator, Associate in Applied Science

**Curriculum EDU.PPR.AAS (C220B)**

The Paraprofessional directly supports teachers and children in the classroom. According to state guidelines, "paraprofessionals should be able to demonstrate knowledge of, and the ability to assist in instruction in the areas of reading, writing and math, or in school readiness;" therefore, "paraprofessionals are expected to have working knowledge of these academic areas." Students completing the AAS Paraprofessional degree will have knowledge and skills in:

- reading, writing, mathematical computation and mathematical reasoning;
- critical and creative thinking, decision making, problem-solving and reasoning;
- communication (listening, speaking and writing);
- child/human growth and development, behavior management, instructional strategies and laws, policies and procedures;
- technology;
- respecting cultural diversity and the views of others; and
- working as a team member.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| EDU 207 ◊# | Introduction to Education | 3.5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | Program electives | 6 |
| | **Subtotal: 15.5** | |

**Semester Two**

| | | |
|---|---|---|
| ECE 136 ◊ | School Age Programming | 3 |
| EDU 105 ◊ | Technology for Educators | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | Program electives | 7-8 |
| | **Subtotal: 16-17** | |

**Semester Three**

| | | |
|---|---|---|
| ECE 146 ◊# | Child, Family & Community | 2 |
| ECE 151 ◊ | Communicating With Parents and Children | 1 |
| EDU 200 ◊# | Introduction to Special Education | 3 |
| EDU 206 ◊# | Human Growth and Development | 3 |
| | Program electives | 6 |
| | **Subtotal: 15** | |

**Semester Four**

| | | |
|---|---|---|
| ECE 118 ◊# | Health, Nutrition & Safety | 3 |
| ECE 153 ◊ | Guiding Children and Managing the Classroom | 1 |
| ECE 233 ◊# | Creative Activities for the Young Child | 3 |
| EDU 110 ◊ | Diversity of Schools and Society | 3 |
| EDU 215 ◊# | Educational Psychology | 3 |
| | Program electives | 3 |
| | **Subtotal: 16** | |

*ECE 118◊ meets the Health and Fitness graduation requirement.*

*Program elective: If a student is planning on obtaining an Illinois Teaching Certificate, elective choices should be based on certificate level. (Refer to Teacher Certification website for electives: http://www.isbe.net)*

**Program electives: (22-23)**

| | | |
|---|---|---|
| ART 110 ◊ | Looking at Art | 3 |
| BIS 100 ◊ | General Biology | 4 |
| | OR | |
| BIS 105 ◊ | Environmental Biology | 4 |
| | OR | |
| MAT 110 ◊# | College Algebra | 5 |
| MUS 110 ◊ | Listening to Music | 3 |
| PHL 105 ◊ | World Religions | 3 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| PSY 216 ◊# | Child Psychology | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| | **Total Credit Hours: 62.5-63.5** | |

***Note:*** *A minimum grade of "C" is a requirement for each ECE or EDU course in all ECE programs.*

*See ECE course descriptions* (p. 212) *and EDU course descriptions* (p. 215).

*See Humanities or Fine Arts and Social or Behavioral Science General Education requirements* (p. 101)*; Mathematics requirements for Associate in Arts degree* (p. 55).

**Chairperson:** Mary Ann Olson, Ext. 3978

# Teacher Aide Certificate

**Curriculum EDU.AID.CERT (C320C)**

The Teacher Aide certificate provides Paraprofessional preparation for students who wish to directly support teachers and children in the classroom.

Students will study child development theory, educational foundations and practices that will be applied during a supervised field experience in a school setting.

This certificate has the potential to serve three groups of students.

- Future Paraprofessionals for non-Title I programs. By completing this curriculum, students who have little or no college experience will have a set of courses in general education and teacher preparation to be certified as a paraprofessional in non-Title I positions.
- Future Paraprofessionals pursuing an Associate's degree. Individuals can use the certificate as a stepping-stone toward completion of the AAS degree. By completing the certificate program they would achieve a credential at the halfway point of their program. (They also would be certified as a paraprofessional for work in non-Title I programs.)
- Incumbent Paraprofessionals. This curriculum will serve those who possess college credits, when combined with or applied to the certificate requirements, total 60 or more credit hours. These individuals would then meet the requirements of No Child Left Behind Act (NCLB) and be eligible to work in Title I positions.

**Semester One**

| | | |
|---|---|---|
| ECE 110 ◊ | Early Child Development | 3 |
| ECE 136 ◊ | School Age Programming | 3 |
| ECE 153 ◊ | Guiding Children and Managing the Classroom | 1 |
| ECE 111 ◊ | Introduction to Early Childhood Education | 3 |
| | OR | |
| EDU 207 ◊# | Introduction to Education | 3.5 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 16.5** | |

**Semester Two**

| | | |
|---|---|---|
| ECE 121 ◊# | Language Development & Activities | 3 |
| ECE 142 ◊# | Students With Disabilities in School | 3 |
| | OR | |
| EDU 200 ◊# | Introduction to Special Education | 3 |
| EDU 105 ◊ | Technology for Educators | 3 |
| EDU 215 ◊# | Educational Psychology | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 31.5** | |

***Note:*** *A minimum grade of "C" is a required for each ECE or EDU course in all ECE programs. 2.0 Grade Point Average is required for graduation.*

*See ECE course descriptions* (p. 212).

**Chairperson:** Mary Ann Olson, Ext. 3978

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/TeacherAideCertificate/13.1501-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Engineering Technology

# Engineering Technology/Mechanical Design, Associate in Applied Science

**Curriculum ENT.ENT.AAS (C248V)**

The Engineering Technology curriculum provides the learner with working knowledge of engineering technology, including basic and advanced drafting and design principles using various 2D and 3D CAD systems, integrating Lean principles in the design process and knowledge of working with various measurement devices used in determining Quality Assurance of prototypes and finished goods. While in the program, the learner will be able to seek out entry-level and internship opportunities in engineering departments, plant maintenance, production departments and technical sales and support.

Upon successful completion of the Engineering Technology program, the graduate will be able to:

- identify quality improvement methods used in the industry, including being able to develop your own process improvement action plans;
- develop and roll out a product development plan from knowledge gained in coursework covering the various processes for manufacturing a product;
- utilize various methods of measuring for the purpose of reverse engineering and quality assurance needs in the design build process;
- analyze a piece-part drawing and make an appropriate listing of operations to obtain the desired part in the most cost and time efficient manner;

- identify and take into account the applied physics principles that come into play in the design-build process of a manufactured product;
- know your responsibilities as part of a design team and the ethics that should be practiced in this process, appreciating the overall human context in which Engineering Technology activities take place; and
- have the opportunity to advance in your career and continue your professional development through four-year transfer programs offered at institutions, such as Illinois State University, Purdue University, Illinois Institute of Technology, Southern Illinois University and others with related programs around the country.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| ENT 104 ◊ | Electricity Basic Fundamentals | 3 |
| ENT 110 ◊ | Engineering Design Graphics/CAD | 4 |
| ENT 252 ◊# | Introduction to Mechanical AutoCAD | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | Program electives | 3 |
| | **Subtotal: 16** | |

**Semester Two**

| | | |
|---|---|---|
| ENT 103 ◊ | Introduction to Automation | 3 |
| ENT 115 ◊ | Fluid Power | 3 |
| ENT 232 ◊# | Descriptive Geometry | 3 |
| MAT 111 ◊# | Pre-Calculus | 5 |
| | OR | |
| MAT 114 ◊# | Plane Trigonometry | 3 |
| | Program electives | 3 |
| | **Subtotal: 15-17** | |

*MAT 111◊ or MAT 114◊ meets the Mathematics and/or Science general education requirement.*

**Semester Three**

| | | |
|---|---|---|
| ENT 111 ◊ | Metrology with Geometric Dimensioning and Tolerancing | 3 |
| ENT 260 ◊# | Jig & Fixture Design | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Program electives | 3 |
| | **Subtotal: 15** | |

*RHT 101◊, SPE 101◊: Students must complete RHT 101◊ with SPE 101◊, or RHT 101◊ with RHT 102◊. Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

*Social and Behavioral Science recommended electives: PSC 150◊ or HIS 151◊.*

**Semester Four**

| | | |
|---|---|---|
| ENT 270 ◊# | Machine Design | 3 |
| ENT 295 ◊# | Applied Statics | 3 |
| HTH 104 ◊ | Science of Personal Health | 2 |
| | OR | |
| HTH 281 ◊ | First Aid & CPR | 2 |
| | General education/Humanities | 3 |
| | Program electives | 3 |
| | **Subtotal: 14** | |

Humanities recommended electives: PHL 103◊ or PHL 105◊. PHL 105◊ fulfills the Human Diversity requirement for general education.

**Total Credit Hours: 60-62**

*See ENT course descriptions* (p. 219).

*See Humanities General Education requirements.* (p. 101)

Program Electives (12): ENT 100, ENT 116◊, ENT 117◊, ENT 118◊, ENT 144◊, ENT 255◊, ENT 280◊, ENT 290◊, ENT 291, ENT 296◊

**Coordinator:** Antigone Sharris, Ext. 3622; email: antigonesharris@triton.edu; Cell Phone: (773) 580-8807

## Engineering Technology/Design Certificate

**Curriculum ENT.DSN.CERT (C348B)**

The Engineering Technology Design certificate curriculum provides the student with the fundamental courses applicable for an entry-level position working with design professionals within engineering departments, plant maintenance, production departments and technical sales and support. Designed to jump-start an education in engineering technology with first discussions on the concepts of Lean principles in the design process and knowledge in working with the various measurement devices used in determining quality assurance of prototypes and finished goods.

Contains coursework within the Engineering Technology AAS degree, a degree that gives graduates the education needed to fill technical positions in product design and development and transfers to four-year technology-related programs, including (but not limited to) the Illinois Institute of Technology, Illinois State University, Northern Illinois University and Purdue University/Calumet. These four-year programs further prepare you to move into leadership roles, such as industrial supervision, machine and tool designer, technical buyers, production expediters and cost estimators.

| | | |
|---|---|---|
| **Semester One** | | |
| ENT 104 ◊ | Electricity Basic Fundamentals | 3 |
| ENT 110 ◊ | Engineering Design Graphics/CAD | 4 |
| ENT 111 ◊ | Metrology with Geometric Dimensioning and Tolerancing | 3 |
| ENT 252 ◊# | Introduction to Mechanical AutoCAD | 3 |
| | **Subtotal: 13** | |
| **Semester Two** | | |
| ENT 115 ◊ | Fluid Power | 3 |
| ENT 232 ◊# | Descriptive Geometry | 3 |
| ENT 260 ◊# | Jig & Fixture Design | 3 |
| ENT 255 ◊# | Autodesk Inventor Design & Rendering<br>OR | 3 |
| ENT 280 ◊# | Solidworks Design & Rendering | 3 |
| | **Subtotal: 12** | |
| | **Total Credit Hours: 25** | |

*See ENT course descriptions* (p. 219).

**Coordinator:** Antigone Sharris, Ext. 3622; email: antigonesharris@triton.edu; Cell Phone: (773) 580-8807

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EngineeringTechnologyDesignCertificate/15.1306-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Engineering Technology/Electrical Certificate

**Curriculum ENT.ELC.CERT (C446I)**

The Engineering Technology/Electrical Certificate program provides students with electrical skills in an industry setting. Students are taught electrical processes and safety such as OSHA general requirements for electrical work and equipment, electrical equipment, grounding, electrical standards and codes, electrical installation, and wiring. In addition, students will learn blueprints/schematics and specification reading, and other electrical processes needed for employability. Graduates will find entry-level employment as electrical technicians, industrial maintenance technicians, as well as apprentice level electricians, architecture, or journeymen. (Fall 2018)

| | | |
|---|---|---|
| **Semester One** | | |
| ARC 102 | OSHA 10-Hour Construction Training | 1 |
| COT 107 ◊ | Codes, Specifications and Print Reading | 3 |
| ENT 104 ◊ | Electricity Basic Fundamentals | 3 |
| ENT 201# | Electrical Residential Wiring | 3 |
| ENT 202# | Electricity Sustainable Applications | 4 |
| ENT 203# | Electrical Codes and Standards | 2 |
| | **Subtotal: 16** | |
| | **Total Credit Hours: 16** | |

*See ENT course descriptions* (p. 219)*; ARC course descriptions* (p. 183) *and COT course descriptions* (p. 208).

**Coordinator:** Antigone Sharris, Ext. 3622; email: antigonesharris@triton.edu; Cell Phone: (773) 580-8807

## Engineering Technology/Fabrication Certificate

**Curriculum ENT.FAB.CERT (C448S)**

The Engineering Technology/Fabrication curriculum provides the student with field experience to advance their knowledge of modern elements of fabrication, from an introduction to manufacturing with shop safety and manual machining operations through the use of CAD/CAM software interfacing with automated CNC equipment. Also included in the certificate is a course on the basics of machine elements, needed in the repair and maintenance of the high-end equipment of today's automated manufacturing facilities.

Upon successful completion of the Engineering Technology/Fabrication Certificate program, the student will be able to:

- utilize effective, safety-enhancing workplace practices in multiple industries;
- demonstrate an understanding of quality practices and measurement;
- identify basic fundamental of blueprint reading;
- determine resources and workflow required of the production process;
- document product and process compliance with customer requirements;
- recognize potential maintenance problems, issues or concerns with basic production systems;
- recognize preventative maintenance indicators to ensure correct operations;
- identify different types of basic production and related mechanical principles, mechanical linkages, and production materials;
- demonstrate use of basic math skills to facilitate technical competencies; and
- set for taking the national Certified Production Technician (MSSC-CPT) exam.

**Semester One**

| | | |
|---|---|---|
| ENT 100 | Introduction to Manufacturing | 4 |
| ENT 116 ◊ | Fabrication Processes | 4 |
| ENT 117 ◊ | Computer Numeric Controls I | 4 |

**Subtotal: 12**

**Semester Two**

| | | |
|---|---|---|
| ENT 110 ◊ | Engineering Design Graphics/CAD | 4 |
| ENT 111 ◊ | Metrology with Geometric Dimensioning and Tolerancing | 3 |
| ENT 118 ◊# | Computer Numeric Controls II | 4 |
| | OR | |
| ENT 290 ◊# | Cooperative Work Experience | 2 |
| ENT 144 ◊# | Sheet Metal Fabrication | 3 |

**Subtotal: 12-14**

**Total Credit Hours: 24-26**

*See ENT course descriptions* (p. 219).

**Coordinator:** Antigone Sharris, Ext. 3622; email: antigonesharris@triton.edu; Cell Phone: (773) 580-8807

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EngineeringTechnologyFabricationCertificate/15.0499-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Engineering Technology/Welding Certificate

**Curriculum ENT.WEL.CERT (C448Y)**

The Engineering Technology/Welding Certificate program provides students with welding skills in a shop setting. Students are taught welding processes, such as ARC (Stick), Metal Inert Gas (MIG) and Tungsten Gas (TIG) welding, in various welding positions. In addition, students learn blueprints, other fabrication processes needed for employability and sheet metal layout/fabrication. Graduates find entry-level employment as entry level welders, solderers, and braziers, as well apprentice level industrial maintenance mechanics. (Fall 2018)

**Semester One**

| | | |
|---|---|---|
| ENT 106 | Welding I | 4 |
| ENT 107# | Welding II | 4 |
| ENT 110 ◊ | Engineering Design Graphics/CAD | 4 |
| ENT 116 ◊ | Fabrication Processes | 4 |

**Subtotal: 16**

**Total Credit Hours: 16**

*See ENT course descriptions* (p. 219).

**Coordinator:** Antigone Sharris, Ext. 3622; email: antigonesharris@triton.edu; Cell Phone: (773) 580-8807

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EngineeringTechnologyFabricationCertificate/15.0499-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Engineering Technology/Mechatronics, Associate in Applied Science

**Curriculum ENT.MEC.AAS (C249V)**

The Engineering Technology curriculum provides the learner with working knowledge of engineering technology, including basic and advanced drafting and design principles using various 2D and 3D Computer Aided Drafting (CAD) systems, integrating lean principles in the design process and knowledge of working with various measurement devices used in determining quality assurance of prototypes and finished goods. While in the program, the learner will be able to seek out entry-level and internship opportunities in engineering departments, plant maintenance, production departments and technical sales and support.

Upon successful completion of the Engineering Technology program, the graduate will be able to:

- understand the electronic and mechanical parts of an automated system;
- interpret electrical wiring diagrams and symbols;
- install, program, and troubleshoot Programmable Logic Controllers (PLCs);
- understand and explain the principal operations of the mechatronic subsystems in a complex system;
- understand and implement safety regulations required for operation of the system;
- diagnose and resolve equipment problems by utilizing technical assessment skills that include planning, reliability, logical thinking, ability to use drawings, schematics and documentation;
- differentiate between thermal, mechanical, fluid and electrical power systems in a variety of settings;
- identify quality improvement methods used in the industry, including developing your own process improvement action plans;
- develop and roll out a product development plan from knowledge gained in coursework covering the various processes for manufacturing a product.

- utilize various methods of measuring for the purpose of reverse engineering and quality assurance needs in the design build process;
- identify and take into account the applied physics principles that come into play in the design-build process of a manufactured product;
- know their responsibilities as part of a design team and the ethics that should be practiced in this process, appreciating the overall human context in which Engineering Technology activities take place; and
- have the opportunity to advance in their careers and continue their professional development through four-year transfer programs offered at institutions, such as Illinois State University, Purdue University, Illinois Institute of Technology, Southern Illinois University and others with related programs around the country.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| ENT 104 ◊ | Electricity Basic Fundamentals | 3 |
| ENT 110 ◊ | Engineering Design Graphics/CAD | 4 |
| ENT 252 ◊# | Introduction to Mechanical AutoCAD | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | Program electives | 3 |
| | | **Subtotal: 16** |

**Semester Two**

| | | |
|---|---|---|
| ENT 115 ◊ | Fluid Power | 3 |
| ENT 204 | Programmable Logic Controllers I | 3 |
| ENT 205 | Robotics I | 4 |
| MAT 111 ◊# | Pre-Calculus | 5 |
| | OR | |
| MAT 114 ◊# | Plane Trigonometry | 3 |
| | | **Subtotal: 13-15** |

*MAT 111◊ or MAT 114◊: meets the Mathematics and/or Science general education requirement.*

**Semester Three**

| | | |
|---|---|---|
| ENT 202# | Electricity Sustainable Applications | 4 |
| ENT 260 ◊# | Jig & Fixture Design | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | Program electives | 6 |
| | | **Subtotal: 16** |

*RHT 101◊: RHT 10◊2, SPE 101◊: Students must complete RHT 101◊ with SPE 101◊, or RHT 101◊ with RHT 102◊. Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Four**

| | | |
|---|---|---|
| ENT 206# | Programmable Logic Controllers II | 4 |
| ENT 207# | Robotics II | 4 |
| HTH 104 ◊ | Science of Personal Health | 2 |
| | OR | |
| HTH 281 ◊ | First Aid & CPR | 2 |
| | General education/Social and Behavioral Science | 3 |
| | General education/Humanities | 3 |
| | | **Subtotal: 16** |

*Social or Behavioral Science recommended electives: PSC 150◊ or HIS 151◊.*

*Humanities recommended electives: PHL 103◊ or PHL 105◊. PHL 105◊ fulfills the Human Diversity requirement for general education.*

**Total Credit Hours: 61-63**

*See ENT course descriptions* (p. 219).

*See Humanities General Education requirements* (p. 101).

Program Electives (9): ENT 100, ENT 103◊, ENT 116◊, ENT 117◊, ENT 118◊, ENT 127◊ ENT 255◊, ENT 280◊, ENT 290◊, ENT 291, ENT 295◊, ENT 296◊

**Coordinator:** Antigone Sharris, Ext. 3622; email: antigonesharris@triton.edu; Cell Phone: (773) 580-8807

## Engineering Technology/Mechatronics Certificate

**Curriculum ENT.MEC.CERT (C448V)**

(formerly C548F)

The Engineering Technology/Mechatronics Certificate curriculum is designed for individuals seeking to secure a position in industry requiring skills and knowledge working with automation equipment, industrial controls, and basic robotics.

**Semester One**

| | | |
|---|---|---|
| ENT 104 ◊ | Electricity Basic Fundamentals | 3 |
| ENT 115 ◊ | Fluid Power | 3 |
| ENT 204 | Programmable Logic Controllers I | 3 |
| | | **Subtotal: 9** |

**Semester Two**

| | | |
|---|---|---|
| ENT 202# | Electricity Sustainable Applications | 4 |
| ENT 205 | Robotics I | 4 |
| ENT 206# | Programmable Logic Controllers II | 4 |
| | | **Subtotal: 12** |

**Total Credit Hours: 21**

*See ENT course descriptions* (p. 219).

**Coordinator:** Antigone Sharris, Ext. 3622; email: antigonesharris@triton.edu; Cell Phone: (773) 580-8807

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EngineeringTechnologyMechatronicsCertificate/15.0805-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Engineering Technology/CAD Advanced Certificate

**Curriculum ENT.CAD.CERT (C548E)**

The Engineering Technology/CAD (Computer-Aided Design) Advanced Certificate curriculum provides the student with the coursework needed to be in an entry-level position where skills and knowledge of Computer-Aided Design (CAD) software is required.

Contains coursework within the Engineering Technology AAS degree; a degree that gives graduates the education needed to fill technical positions in product design and development and transfers to four-year technology-related programs, including (but not limited to) the Illinois Institute of Technology, Illinois State University, Northern Illinois University and Purdue University/Calumet. These four-year programs further prepare the graduates to move into leadership roles, such as industrial supervision, machine and tool designer, technical buyers, production expediters and cost estimators.

| **Semester One** | | |
|---|---|---|
| ENT 110 ◊ | Engineering Design Graphics/CAD | 4 |
| ENT 252 ◊# | Introduction to Mechanical AutoCAD | 3 |
| ENT 255 ◊# | Autodesk Inventor Design & Rendering | 3 |
| ENT 280 ◊# | Solidworks Design & Rendering | 3 |
| | | **Subtotal: 13** |
| | | **Total Credit Hours: 13** |

*See ENT course descriptions* (p. 219).

**Coordinator:** Antigone Sharris, Ext. 3622; email: antigonesharris@triton.edu; Cell Phone: (773) 580-8807

## Environmental Science

## Environmental Science, Associate in Applied Science

**Curriculum SCI.EVN.AAS (C226A)**

The Environmental Science curriculum is designed to allow students to explore the relationship between organisms and their environment, with a particular emphasis on the impacts that humans place on their environment. The interdisciplinary nature of environmental science will be investigated through diverse course offerings, including biology, chemistry, geology, geography, and sustainable agriculture. There are two tracks or emphases from which students can choose based on their interests and goals: Geography/Geology or Ecology and Agriculture. Graduates of this program will receive appropriate training to qualify for a variety of entry-level positions within the environmental testing and/or consulting and related industries. Graduates may also transfer to pursue a baccalaureate degree in environmental science or related field.

### Associate in Applied Science Degree

| **Semester One** | | |
|---|---|---|
| BIS 105 ◊ | Environmental Biology | 4 |
| CHM 140 ◊# | General Chemistry I | 5 |
| MAT 110 ◊# | College Algebra | 5 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | | **Subtotal: 17** |
| **Semester Two** | | |
| BIS 150 ◊# | Principles of Biology I | 4 |
| CHM 141 ◊# | General Chemistry II | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | Selection from appropriate concentration | 3-4 |
| | | **Subtotal: 15-16** |
| **Semester Three** | | |
| BIS 151 ◊# | Principles of Biology II | 4 |
| PSC 150 ◊ | American National Politics | 3 |
| | OR | |
| PSC 151 ◊ | American State and Urban Politics | 3 |
| SAT 110 | Natural Resource Management (Soils and Water) | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | Selection from appropriate concentration | 3-4 |
| | | **Subtotal: 16-17** |

| | | |
|---|---|---|
| **Semester Four** | | |
| ENV 150 | Environmental Sciences Field Methods | 4 |
| PHL 103 ◊ | Ethics | 3 |
| | Program electives | 7-8 |
| | Selection from appropriate concentration | 3-4 |
| | | **Subtotal: 17-19** |
| | | **Total Credit Hours: 65-69** |

**Choose from one of the following concentrations (9-12 credits):**

**Geography/Geology (SCI.GEO.AAS)**

Take:

| | | |
|---|---|---|
| GEO 200 ◊ | Physical Geography: Weather and Climate | 4 |
| GEO 201 ◊ | Physical Geography: Maps and Land Forms | 4 |
| GOL 103 ◊ | Environmental Geology: Aspects of Global Hazards and Change | 3 |
| | | **Subtotal: 11** |

**Ecology and Agriculture (SCI.EAG.AAS)**

| | | |
|---|---|---|
| BIS 205 ◊# | Field Ecology | 4 |
| SAT 100 | Principles of Agroecology | 3 |
| SAT 105 | Urban Agriculture Issues | 3 |
| | | **Subtotal: 10** |

**Program electives (7-8 credits)**

| | | |
|---|---|---|
| GOL 101 ◊ | Physical Geology | 4 |
| HRT 127 ◊ | Entomology: Insects, People and Plants | 3 |
| HRT 270 | Sustainable Landscape Practices | 3 |
| HRT 275 | Innovations in Sustainability | 4 |
| PHS 100 ◊ | Introduction to Earth Science | 4 |
| PHS 141 ◊ | Application of Physical Science Concepts | 4 |

*See BIS course descriptions* (p. 188).

*See Humanities General Education requirements* (p. 101).

**Chairperson:** Gabriel Guzman, Ext. 3312; email: gabrielguzman@triton.edu

# Eye Care Assistant

# Eye Care Assistant Certificate

**Curriculum OPH.EYE.CERT (C451A)**

The Eye Care Assistant program prepares graduates for entry-level work in a variety of eye care settings under the direction of the optometrist or ophthalmologist. Employment opportunities are excellent due to an increasing demand for eye care support personnel.

| | | |
|---|---|---|
| **Semester One** | | |
| AHL 110 ◊ | Medical Coding & Office Procedures | 2 |
| EYE 100 ◊ | Fundamentals of Optometric Technology | 4 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| | | **Subtotal: 8** |
| **Semester Two** | | |
| EYE 110 ◊# | Optometric Assisting Procedures | 4 |
| | Electives | 4 |
| | | **Subtotal: 8** |
| | | **Total Credit Hours: 16** |

***Note:*** *A minimum grade of "C" is required as a prerequisite for each EYE course.*

*See EYE course descriptions* (p. 223).

**Coordinator:** TBA, Ext. 3712

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EyeCareAssistantCertificate/51.1803-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Facilities Engineering Technology

# Facilities Engineering Technology, Associate in Applied Science

**Curriculum CE.FET.AAS (C280A)**

The Facilities Engineering Technology Degree is designed for students who are enrolled through the International Union of Operating Engineers (IUOE), Local 399 Education Training Fund to continue with their education and complete the course work needed for an associate's degree. Students will have the opportunity to acquire the skills needed for employment in jobs requiring multiple maintenance competencies, including electricity, plumbing, and boilers. These competencies will allow the students in

this associate's degree program to obtain highly skilled maintenance positions in a variety of industries, office buildings, universities, hospitals, school districts, municipalities, stadia, and commercial/industrial facilities.

Upon successful completion of the program, the graduate will:

- maintain and repair systems and functions associated with the maintenance of facilities;
- troubleshoot and provide preventative maintenance of facilities;
- communicate effectively, not only using the terminology appropriate to this trade, but the skills acquired in the other non-technical coursework; and
- provide the leadership and management skills needed for position as foreman, manager and supervisor.

Graduates of the program may seek employment as a stationary operating engineer, a chief engineer, a facilities manager, maintenance foreman, or as a building maintenance supervisor.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| FET 101 | Indoor Air Quality | 4 |
| FET 105 | Commercial Heating and Cooling Systems I | 4 |
| FET 110 | Electricity for Facilities Engineers I | 4 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| FET 115# | Commercial Heating and Cooling Systems II | 4 |
| FET 125 | Testing and Balancing | 4 |
| FET 135 | Pneumatic and Direct Digital Controls | 4 |
| FET 140 | Plumbing Repair and Maintenance | 3 |
| MAT 122 ◊# | Technical Mathematics | 3 |
| | **Subtotal: 18** | |

**Semester Three**

| | | |
|---|---|---|
| FET 201 | Understanding Plan Drawings | 2 |
| FET 210# | Electricity for Facilities Engineers II | 4 |
| FET 215 | Basic Boiler Operations | 4 |
| FET 220 | Energy Conservation | 5 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 18** | |

*RHT 101◊, SPE 10◊1: Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Four**

| | | |
|---|---|---|
| FET 225 | Facility Sustainability and Green Technology | 5 |
| FET 230 | Critical Systems | 2 |
| FET 250 | Chief Engineer | 2 |
| | General education/Humanities and Fine Arts | 3 |
| SSC 190 ◊ | Contemporary Society | 3 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 66** | |

*See FET course descriptions* (p. 223).

*See Humanities or Fine Arts General Education requirements* (p. 101).

**Dean:** Paul Jensen, Ext. 3714

## Facilities Engineering Technology Certificate

**Curriculum CE.FET.CERT (C380A)**

The Facilities Engineering Technology Certificate provides the lecture and hands-on training needed for employment as facility engineers for both union and non-union students. Students who come through the International Union of Operating Engineers (IUOE) Local 399 Education Training Fund, will have the opportunity to acquire the necessary skills for employment in jobs requiring multiple maintenance competencies, including electricity, plumbing, and boilers. These competencies will allow graduates to obtain highly skilled maintenance positions in a variety of industries, office buildings, universities, hospitals, school districts, municipalities, stadia and commercial/industrial facilities.

Upon successful completion of the program, the graduate will:

- maintain and repair systems and functions associated with the maintenance of facilities;
- troubleshoot and provide preventative maintenance of facilities; and
- communicate effectively, not only using the terminology appropriate to this trade, but the skills acquired in the other non-technical coursework.

Graduates of the program may seek employment as a facilities engineer, stationary operating engineer, an operating engineer, a chief engineer, maintenance foreman, or as a building maintenance supervisor.

**Semester One**

| | | |
|---|---|---|
| FET 101 | Indoor Air Quality | 4 |
| FET 105 | Commercial Heating and Cooling Systems I | 4 |
| FET 110 | Electricity for Facilities Engineers I | 4 |
| FET 115# | Commercial Heating and Cooling Systems II | 4 |
| | **Subtotal: 16** | |

| | | |
|---|---|---|
| **Semester Two** | | |
| FET 135 | Pneumatic and Direct Digital Controls | 4 |
| FET 210# | Electricity for Facilities Engineers II | 4 |
| FET 215 | Basic Boiler Operations | 4 |
| FET 220 | Energy Conservation | 5 |
| | **Subtotal: 17** | |
| | **Total Credit Hours: 33** | |

*See FET course descriptions* (p. 223).

**Dean:** Paul Jensen, Ext. 3714

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/FacilitiesEngineeringTechnologyCertificate/46.0000-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Critical Systems Maintenance Certificate

**Curriculum CE.CSM.CERT (C381A)**

The Critical Systems Maintenance Certificate provides both lecture and hands-on training for facility engineers working in critical system environments. Students who come through Local 399 will become familiar with the design and operations of mission critical facilities in order to address risk tolerance, reliability, maintainability, and predictive maintenance. They will also acquire the necessary skills for employment in jobs requiring multiple maintenance competencies. These competencies will allow graduates to obtain highly skilled maintenance positions in a variety of industries, office buildings, universities, hospitals, school districts, municipalities, stadia and commercial/industrial facilities.

Upon successful completion of the program, the graduate will:

- maintain and repair systems and functions associated with mission critical systems and the maintenance of facilities;
- troubleshoot and provide predictive as well as preventative maintenance of facilities; and
- communicate effectively, not only using the terminology appropriate to this trade, but the skills acquired in the other non-technical coursework.

Graduates of the program may seek employment as a facilities engineer, stationary operating engineer, an operating engineer, a chief engineer, maintenance foreman, or as a building maintenance supervisor.

| | | |
|---|---|---|
| **Semester One** | | |
| FET 101 | Indoor Air Quality | 4 |
| FET 105 | Commercial Heating and Cooling Systems I | 4 |
| FET 110 | Electricity for Facilities Engineers I | 4 |
| FET 115# | Commercial Heating and Cooling Systems II | 4 |
| | **Subtotal: 16** | |
| **Semester Two** | | |
| FET 135 | Pneumatic and Direct Digital Controls | 4 |
| FET 210# | Electricity for Facilities Engineers II | 4 |
| FET 230 | Critical Systems | 2 |
| FET 231 | Facility Systems | 4 |
| FET 232 | Critical Systems Operations and Maintenance | 3 |
| | **Subtotal: 17** | |
| | **Total Credit Hours: 33** | |

*See FET course descriptions* (p. 223).

**Dean:** Paul Jensen, Ext. 3714

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/CriticalSystemsMaintenanceCertificate/46.0000-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Healthcare Facilities Maintenance Certificate

**Curriculum CE.HTH.CERT (C382A)**

The Healthcare Facilities Maintenance Certificate provides both lecture and hands-on training for facility engineers working in healthcare environments. Local 399 Educational Training Fund participants will become familiar with the design and operations of healthcare facilities in order to address risk tolerance, reliability, maintainability, and predictive maintenance. They will also acquire the necessary skills for employment in jobs requiring multiple maintenance competencies. These competencies will allow graduates to obtain highly skilled maintenance positions in a variety of industries including but not limited to healthcare, working in places such as hospitals, clinics, nursing homes, extended care facilities and other related businesses.

Upon successful completion of the program, the graduate will:

- Maintain and repair systems and functions associated with healthcare and the maintenance of healthcare facilities;

- Troubleshoot and provide predictive as well as preventative maintenance of healthcare facilities; and
- Communicate effectively, not only using the terminology appropriate to this trade, but the skills acquired in the other non-technical coursework.

Graduates of the program may seek employment as a facilities engineer, operating engineer, chief engineer, maintenance foreman, or as a building maintenance supervisor working in settings involving complex systems.

| | | |
|---|---|---|
| **Semester One** | | |
| FET 101 | Indoor Air Quality | 4 |
| FET 105 | Commercial Heating and Cooling Systems I | 4 |
| FET 110 | Electricity for Facilities Engineers I | 4 |
| FET 115# | Commercial Heating and Cooling Systems II | 4 |
| | **Subtotal: 16** | |
| **Semester Two** | | |
| FET 135 | Pneumatic and Direct Digital Controls | 4 |
| FET 210# | Electricity for Facilities Engineers II | 4 |
| FET 235 | Healthcare, Logistics and Compliance | 3 |
| FET 236 | Healthcare Maintenance Systems | 3 |
| | **Subtotal: 17** | |
| | **Total Credit Hours: 33** | |

*See FET course descriptions* (p. 223).

**Dean:** Paul Jensen, Ext. 3714

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/HealthcareFacilitiesMaintenanceCertificate/46.0401-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Hospitality Facilities Maintenance Certificate

**Curriculum CE.HOS.CERT (C384A)**

The Hospitality Facilities Maintenance Certificate provides both lecture and hands-on training for facility engineers working in hospitality environments. Local 399 Educational Training Fund participants will become familiar with the design and operations of hospitality facilities in order to address risk tolerance, reliability, maintainability, and predictive maintenance. They will also acquire the necessary skills for employment in jobs requiring multiple maintenance competencies. These competencies will allow graduates to obtain highly skilled maintenance positions in a variety of industries including but not limited to hospitality, working in places such as hotels, motels, resorts, inns, restaurants, theme parks and other related businesses.

Upon successful completion of the program, the graduate will:

- Maintain and repair systems and functions associated with hospitality and the maintenance of hospitality facilities;
- Troubleshoot and provide predictive as well as preventative maintenance of hospitality facilities; and
- Communicate effectively, not only using the terminology appropriate to this trade, but the skills acquired in the other non-technical coursework.

Graduates of the program may seek employment as a facilities engineer, operating engineer, chief engineer, maintenance foreman, or as a building maintenance supervisor working in settings involving complex systems.

| | | |
|---|---|---|
| **Semester One** | | |
| FET 101 | Indoor Air Quality | 4 |
| FET 105 | Commercial Heating and Cooling Systems I | 4 |
| FET 110 | Electricity for Facilities Engineers I | 4 |
| FET 115# | Commercial Heating and Cooling Systems II | 4 |
| | **Subtotal: 16** | |
| **Semester Two** | | |
| FET 135 | Pneumatic and Direct Digital Controls | 4 |
| FET 210# | Electricity for Facilities Engineers II | 4 |
| FET 245 | Hospitality Facility Operations | 3 |
| FET 246 | Hotel Maintenance Systems | 3 |
| FET 247 | Hospitality Equipment Maintenance and Repair | 3 |
| | **Subtotal: 17** | |
| | **Total Credit Hours: 33** | |

*See FET course descriptions* (p. 223).

**Dean:** Paul Jensen, Ext. 3714

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/HospitalityFacilitiesMaintenanceCertificate/15.0404-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Mobile Maintenance Certificate

**Curriculum CE.MOM.CERT (C383A)**

The Mobile Maintenance Certificate provides both lecture and hands-on training for facility engineers conducting mobile maintenance at satellite locations in open-air environments. In many instances, the value of real estate or the desire to place equipment out of sight leads companies to place an array of HVAC equipment on the roof. This rooftop equipment presents facility engineers with unique challenges, primarily related to weather and access. Local 399 Educational Training Fund participants will become familiar with the design and operations of rooftop HVAC facilities in order to address risk tolerance, reliability, maintainability, and predictive maintenance.

They will also acquire the necessary skills for employment in jobs requiring multiple maintenance competencies. These competencies will allow graduates to obtain highly skilled maintenance positions in a variety of industries.

Upon successful completion of the program, the graduate will:

- Maintain and repair systems and functions associated with externally mounted HVAC equipment;
- Troubleshoot and provide predictive as well as preventative maintenance of rooftop equipment; and
- Communicate effectively, not only using the terminology appropriate to this trade, but the skills acquired in the other non-technical coursework.

Graduates of the program may seek employment as a facilities engineer, operating engineer, chief engineer, maintenance foreman, or as a building maintenance supervisor working in settings involving complex systems.

**Semester One**

| | | |
|---|---|---|
| FET 101 | Indoor Air Quality | 4 |
| FET 105 | Commercial Heating and Cooling Systems I | 4 |
| FET 110 | Electricity for Facilities Engineers I | 4 |
| FET 115# | Commercial Heating and Cooling Systems II | 4 |
| | | **Subtotal: 16** |

**Semester Two**

| | | |
|---|---|---|
| FET 135 | Pneumatic and Direct Digital Controls | 4 |
| FET 210# | Electricity for Facilities Engineers II | 4 |
| FET 240 | Mobile Maintenance | 3 |
| FET 241 | Mobile Maintenance System Components | 3 |
| FET 242 | Rooftop Equipment and Operations Maintenance | 3 |
| | | **Subtotal: 17** |
| | | **Total Credit Hours: 33** |

*See FET course descriptions* (p. 223).

**Dean:** Paul Jensen, Ext. 3714

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/MobileMaintenanceCertificate/46.0401-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Fire Science

# Fire Science, Associate in Applied Science

**Curriculum FIR.FIR.AAS (C243B)**

The Fire Science program is designed for individuals pursuing a career in fire service and related fields. Some fire departments offer hiring, promotional, and salary incentives to associate degree program graduates. This program is based on the curriculum recommended by the Fire Emergency Services Higher Education (FESHE) division of the United States Fire Administration (USFA).

Other areas of employment for Fire Science graduates include fire equipment sales and service, municipal fire protection, fire prevention inspection in industry and architectural firms, investigation for insurance companies and emergency medical services. Upon petition, students who have completed programs approved by the Illinois State Fire Marshall's Office will be granted equivalent credit toward an associate's degree in Fire Science.

Courses from this program may transfer into Southern Illinois University at Carbondale (SIUC) Fire Service Bachelor of Science program, after review with a program advisor. For more information, go to: http://www.siuc.edu/~asaocap/fire_service/index.htm. In addition, courses from this program may transfer to other colleges and universities that allow students to transfer into a four-year program. For more information, contact the college or university in which you wish to transfer.

### Associate in Applied Science Degree

**Semester One (Fall)**

| | | |
|---|---|---|
| EMS 131 ◊# | Emergency Medical Technician | 7 |
| FIR 101 ◊ | National Incident Management System (NIMS) | 1 |
| | Principles of Emergency Services | 2 |
| FIR 112 | Fire Behavior & Combustion | 2 |
| FIR 114 ◊ | Building Construction for Fire Protection | 3 |
| | | **Subtotal: 15** |

| | | |
|---|---|---|
| **Semester Two (Spring)** | | |
| FIR 102 ◊ | Basic ICS and Application Towards Single Resource & Initial Action Incidents | 1 |
| FIR 113 | Fire Prevention | 2 |
| FIR 115# | Fire Protection Systems | 2 |
| FIR 116 | Principles of Fire & Emergency Services Safety & Survival | 2 |
| MAT 101 ◊# | Quantitative Literacy | 3 |
| | OR | |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| PSC 150 ◊ | American National Politics | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 16** | |
| **Semester Three (Summer)** | | |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | **Subtotal: 6** | |
| **Semester Four (Fall)** | | |
| FIR 203 ◊# | Fire & Emergency Services Administration | 3 |
| FIR 210 ◊# | Fire Investigation I | 3 |
| FIR 241 ◊# | Legal Aspects of Emergency Services | 3 |
| FIR 251# | Occupational Safety & Health for Emergency Services | 2 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 14** | |
| **Semester Five (Spring)** | | |
| FIR 202 ◊# | Fire Service Strategy & Tactics | 3 |
| FIR 218# | Fire Investigation II | 3 |
| FIR 221 ◊# | Fire Protection Hydraulics & Water Supply | 3 |
| FIR 231 ◊# | Hazardous Materials Chemistry | 3 |
| | **Subtotal: 12** | |
| **Semester Six (Summer)** | | |
| FIR 261# | Fire Service Practicum | 1 |
| | **Subtotal: 1** | |
| | **Total Credit Hours: 64** | |

***Note:*** *A minimum grade of "C" is required for each FIR and EMS course.*

*See FIR course descriptions* (p. 226).

*See Humanities or Fine Arts General Education requirements* (p. 101).

Humanities or Fine Arts recommended electives (3): ENG 101◊, ENG 102◊, ENG 103◊, HUM 104◊, MUS 110◊, PHL 101◊, PHL 103◊ or SPE 130◊.

Social or Behavioral Science recommended elective: PSY 100◊

Physical or Life Science recommended electives: BIS 100◊ or BIS 101◊, AST 100◊ or CHM 100◊

**Coordinator:** William Justiz, Ext. 3653

## Fire Science Certificate

(formerly Fire Science Technology)

**Curriculum FIR.FIR.CERT (C343A)**

The Fire Science program is designed for individuals pursuing a career in fire service and related fields. Some fire departments offer hiring, promotional, and salary incentives to candidates possessing a certificate. This program is based on the curriculum recommended by the Fire Emergency Services Higher Education (FESHE) division of the United States Fire Administration (USFA).

Other areas of employment for Fire Science graduates include fire-equipment sales and service, municipal fire protection, fire prevention inspection in industry and architectural firms, investigation for insurance companies, and emergency medical services. Upon petition, students who have completed programs approved by the Illinois State Fire Marshall's Office will be granted equivalent credit toward a Certificate in Fire Science.

| | | |
|---|---|---|
| **Semester One** | | |
| FIR 101 ◊ | National Incident Management System (NIMS) | 1 |
| FIR 111 | Principles of Emergency Services | 2 |
| FIR 112 | Fire Behavior & Combustion | 2 |
| FIR 114 ◊ | Building Construction for Fire Protection | 3 |
| | **Subtotal: 8** | |
| **Semester Two** | | |
| FIR 102 ◊ | Basic ICS and Application Towards Single Resource & Initial Action Incidents | 1 |
| FIR 113 | Fire Prevention | 2 |
| FIR 115# | Fire Protection Systems | 2 |
| FIR 116 | Principles of Fire & Emergency Services Safety & Survival | 2 |
| | **Subtotal: 7** | |
| **Semester Three** | | |
| FIR 203 ◊# | Fire & Emergency Services Administration | 3 |
| FIR 210 ◊# | Fire Investigation I | 3 |
| FIR 241 ◊# | Legal Aspects of Emergency Services | 3 |
| FIR 251# | Occupational Safety & Health for Emergency Services | 2 |
| | **Subtotal: 11** | |

**Semester Four**

| | | |
|---|---|---|
| FIR 202 ◊# | Fire Service Strategy & Tactics | 3 |
| FIR 218# | Fire Investigation II | 3 |
| FIR 221 ◊# | Fire Protection Hydraulics & Water Supply | 3 |
| FIR 231 ◊# | Hazardous Materials Chemistry | 3 |
| | **Subtotal:** | **12** |
| | **Total Credit Hours:** | **38** |

***Note:*** *A minimum grade of "C" is required for each FIR course.*

*See FIR course descriptions* (p. 226).

**Coordinator:** William Justiz, Ext. 3653

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/FireScienceCertificate/43.0203-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Basic Operations Firefighter Certificate

**Curriculum FIR.BOP.CERT (C444D)**

To provide entry-level employment training for students looking to start a career in the fire service, in addition to those needing basic level firefighter training for a existing career in the fire service. Certification through the Illinois Fire Marshal requires applicant being a rostered member of a fire department. A minimum grade of a 'C' is required for students to sit for the certification exam through the Illinois State Fire Marshal, to become certified as a Basic Operation Firefighter. (Fall 2018)

**Semester One**

| | | |
|---|---|---|
| FIR 101 ◊ | National Incident Management System (NIMS) | 1 |
| FIR 121# | Basic Firefighter Module A | 4 |
| FIR 122# | Basic Firefighter Module B | 3 |
| | **Subtotal:** | **8** |

**Semester Two**

| | | |
|---|---|---|
| FIR 102 ◊ | Basic ICS and Application Towards Single Resource & Initial Action Incidents | 1 |
| FIR 123# | Basic Firefighter Module C | 4 |
| FIR 124# | Basic Firefighter Awareness | 2 |
| | **Subtotal:** | **7** |

**Semester Three**

| | | |
|---|---|---|
| FIR 125# | Hazardous Materials Operations | 3 |
| | **Subtotal:** | **3** |
| | **Total Credit Hours:** | **18** |

***Note:*** *A minimum grade of "C" is required for each FIR course.*

*See FIR course descriptions* (p. 226).

**Coordinator:** William Justiz, Ext. 3653

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/FireScienceCertificate/43.0203-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Company Fire Officer Certificate

**Curriculum FIR.CFO.CERT (C444E)**

The company fire officer is responsible for the administration and supervision of a fire company for fire suppression, hazardous material response, rescue operations and emergency medical services. The certificate is only available for current firefighters certified as a Firefighter III or an Advanced Technician Firefighter, through the Illinois State Fire Marshal. This certificate will give the student the classes required for certification as a "Company Fire Officer", through the Illinois State Fire Marshal. A passing grade is in all classes to enable students to sit for the certification exam through the Illinois State Fire Marshal. (Fall 2018)

**Semester One**

| | | |
|---|---|---|
| FIR 101 ◊ | National Incident Management System (NIMS) | 1 |
| FIR 195# | Fire Service Instructor I | 3 |
| | **Subtotal:** | **4** |

**Semester Two**

| | | |
|---|---|---|
| FIR 102 ◊ | Basic ICS and Application Towards Single Resource & Initial Action Incidents | 1 |
| FIR 204# | Company Fire Officer I | 3 |
| FIR 205# | Company Fire Officer II | 5 |
| | **Subtotal:** | **9** |
| | **Total Credit Hours:** | **13** |

***Note:*** *A minimum grade of "C" is required for each FIR course.*

*See FIR course descriptions* (p. 226).

**Coordinator:** William Justiz, Ext. 3653

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/FireScienceCertificate/43.0203-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Advanced Fire Officer Certificate

**Curriculum FIR.AFO.CERT (C444F)**

The advanced fire officer is responsible for the administration and supervision of multiple fire companies for fire suppression, hazardous material response, rescue operations and emergency medical services. The certificate is only available for current firefighters certified as a Fire Officer I or a Company Fire Officer, through the Illinois State Fire Marshal. This certificate will give the student the classes needed for certification as an "Advance Fire Officer", thru the Illinois State Fire Marshal. A passing grade in all classes is required for students to sit for the certification exam through the Illinois State Fire Marshal. (Fall 2018)

| | | |
|---|---|---|
| **Semester One** | | |
| FIR 206# | Advanced Fire Fighter | 8 |
| | | **Subtotal: 8** |
| **Semester Two** | | |
| FIR 196# | Fire Service Instructor II | 3 |
| FIR 252# | Incident Safety Officer | 3 |
| | | **Subtotal: 6** |
| | | **Total Credit Hours: 14** |

***Note:*** *A minimum grade of "C" is required for each FIR course.*

*See FIR course descriptions* (p. 226).

**Coordinator:** William Justiz, Ext. 3653

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/FireScienceCertificate/43.0203-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Emergency Management

# Emergency Management, Associate in Applied Science

**Curriculum EMP.EMP.AAS (C244A)**

Designed to prepare students to enter the profession of emergency management. An emphasis is placed on developing academic, technical and professional knowledge and skills required for job acquisition, retention and advancement. The skills obtained through the associate degree program will prepare students to enter emergency management positions in government agencies, private corporations, industry and education or health care institutions.

### Associate in Applied Science Degree

| | | |
|---|---|---|
| **Semester One** | | |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| EMP 111 ◊ | Principles of Emergency Management & Planning | 2 |
| EMP 121 ◊ | Introduction to Mitigation | 1 |
| EMP 131 ◊ | Emergency Operations Center (EOC) Management and Operations | 1 |
| EMP 141 ◊ | Basic Public Information Officers (PIO) | 2 |
| EMP 151 ◊ | Resource Management | 1 |
| EMP 161 ◊ | Disaster Response/Recovery Operations & RAPID Assessment | 3 |
| FIR 101 ◊ | National Incident Management System (NIMS) | 1 |
| | | **Subtotal: 14** |
| **Semester Two** | | |
| EMP 112 ◊# | Emergency Management Operation | 2 |
| EMP 122 ◊# | Mitigation for Emergency Workers | 2 |
| EMP 132 ◊# | Incident Command System/Emergency Operations Center Interface | 1 |
| FIR 102 ◊ | Basic ICS and Application Towards Single Resource & Initial Action Incidents | 1 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | | **Subtotal: 15** |

*RHT 101◊, SPE 101◊: Students must complete RHT 101◊ with SPE 101◊, or RHT 101◊ with RHT 102◊. Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

| | | |
|---|---|---|
| **Semester Three** | | |
| EMP 221 ◊ | The Role of Volunteer Agencies in Emergency Management | 1 |
| EMP 231 ◊ | An Orientation to Community Disaster Exercises | 1 |
| EMP 241 ◊ | Hazardous Weather and Flood Preparedness | 1 |
| | | **Subtotal: 3** |
| **Semester Four** | | |
| EMP 113 ◊ | Emergency Planning & Special Needs Populations | 2 |
| EMP 201 ◊ | Debris Management | 2 |
| EMP 222 ◊# | Developing Volunteer Resources | 1 |
| EMP 232 ◊# | Exercise Design | 1 |
| EMP 243 ◊# | Hazardous Weather, Flooding & Hurricane Planning | 2 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| | Electives | 6 |
| | | **Subtotal: 16** |

| | | |
|---|---|---|
| **Semester Five** | | |
| EMP 211 ◊# | Basic Skills in Emergency Program Management | 3 |
| EMP 223 ◊# | Donations Management | 1 |
| EMP 233 ◊# | Exercise Program Manager-Management Course | 2 |
| EMP 242 ◊# | Warning Coordination & Maintaining Spotter Groups | 2 |
| MAT 101 ◊# | Quantitative Literacy | 3 |
| | OR | |
| MAT 102 ◊# | Liberal Arts Mathematics | 3 |
| | General education/Social and Behavioral Science | 3 |
| | Electives | 4 |
| | **Subtotal: 18** | |
| | **Total Credit Hours: 64** | |

***Note:*** *A minimum grade of "C" is required for each EMP course.*

*See EMP course descriptions* (p. 216).

*See Humanities General Education requirements; Social or Behavioral Sciences General Education requirements* (p. 101).

**Recommended elective: #** EMP 103◊

Students that have completed EMS 121◊, EMS 131◊ or have an equivalent or higher "EMS License", can petition to meet the health general education requirement.

**Coordinator:** William Justiz, Ext. 3653

# Emergency Management Certificate

**Curriculum EMP.EMP.CERT (C344A)**

Designed to prepare students to enter the profession of emergency management. An emphasis is placed on developing academic, technical and professional knowledge and skills required for job acquisition, retention and advancement. The skills obtained through the certificate program prepares the students to enter emergency management positions in government agencies, private corporations and industry and education or health care institutions.

| | | |
|---|---|---|
| **Semester One** | | |
| EMP 111 ◊ | Principles of Emergency Management & Planning | 2 |
| EMP 121 ◊ | Introduction to Mitigation | 1 |
| EMP 131 ◊ | Emergency Operations Center (EOC) Management and Operations | 1 |
| EMP 141 ◊ | Basic Public Information Officers (PIO) | 2 |
| EMP 151 ◊ | Resource Management | 1 |
| EMP 161 ◊ | Disaster Response/Recovery Operations & RAPID Assessment | 3 |
| FIR 101 ◊ | National Incident Management System (NIMS) | 1 |
| | **Subtotal: 11** | |
| **Semester Two** | | |
| EMP 112 ◊# | Emergency Management Operation | 2 |
| EMP 122 ◊# | Mitigation for Emergency Workers | 2 |
| EMP 132 ◊# | Incident Command System/ Emergency Operations Center Interface | 1 |
| FIR 102 ◊ | Basic ICS and Application Towards Single Resource & Initial Action Incidents | 1 |
| | **Subtotal: 6** | |
| **Semester Three** | | |
| EMP 221 ◊ | The Role of Volunteer Agencies in Emergency Management | 1 |
| EMP 231 ◊ | An Orientation to Community Disaster Exercises | 1 |
| EMP 241 ◊ | Hazardous Weather and Flood Preparedness | 1 |
| | **Subtotal: 3** | |
| **Semester Four** | | |
| EMP 113 ◊ | Emergency Planning & Special Needs Populations | 2 |
| EMP 201 ◊ | Debris Management | 2 |
| EMP 222 ◊# | Developing Volunteer Resources | 1 |
| EMP 232 ◊# | Exercise Design | 1 |
| EMP 243 ◊# | Hazardous Weather, Flooding & Hurricane Planning | 2 |
| | **Subtotal: 8** | |
| **Semester Five** | | |
| EMP 211 ◊# | Basic Skills in Emergency Program Management | 3 |
| EMP 223 ◊# | Donations Management | 1 |
| EMP 233 ◊# | Exercise Program Manager-Management Course | 2 |
| EMP 242 ◊# | Warning Coordination & Maintaining Spotter Groups | 2 |
| | **Subtotal: 8** | |
| | **Total Credit Hours: 36** | |

***Note:*** *A minimum grade of "C" is required for each EMP course.*

*See EMP course descriptions* (p. 216).

**Coordinator:** William Justiz, Ext. 3653

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/EmergencyManagementCertificate/51.0904-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Public Safety Dispatcher Certificate

**Curriculum EMS.DIS.CERT (C444C)**

Public safety dispatchers are responsible for receiving 911 emergency calls and dispatching the proper emergency responders to these emergencies. They are also responsible for disseminating information, acting as a communication portal, and playing an integral role for the on-scene emergency crews by serving as their communication link.

**Semester One**

| | | |
|---|---|---|
| DIS 111 | Introduction to Public Safety Dispatching | 3 |
| DIS 121 | Law Enforcement Dispatching | 2 |
| FIR 101 ◊ | National Incident Management System (NIMS) | 1 |
| | **Subtotal:** | **6** |

**Semester Two**

| | | |
|---|---|---|
| DIS 131# | Fire/EMS Dispatching | 2 |
| DIS 132# | Emergency Medical Dispatcher | 2 |
| FIR 102 ◊ | Basic ICS and Application Towards Single Resource & Initial Action Incidents | 1 |
| | **Subtotal:** | **5** |
| | **Total Credit Hours:** | **11** |

***Note:*** *A minimum grade of "C" is required for each DIS, and EMP course.*

*See DIS course descriptions* (p. 210)*; EMP course descriptions* (p. 216)*.*

**Coordinator:** William Justiz, Ext. 3653

## Emergency Medical Technician

## Emergency Medical Technician Certificate

(formerly Emergency Medical Technician - Basic)

**Curriculum EMS.EMS.CERT (C444A)**

The primary focus of the Emergency Medical Technician (EMT) is to provide basic emergency medical care and transportation for critical and emergent patients who access the Emergency Medical System (EMS). This individual possesses the basic knowledge and skills necessary to provide patient care and transportation and will function as part of a comprehensive EMS response plan, under medical oversight. EMTs perform interventions with the basic equipment typically found on an ambulance and is a link from the scene to the emergency health care system.

**Semester One**

| | | |
|---|---|---|
| EMS 131 ◊# | Emergency Medical Technician | 7 |
| | **Total Credit Hours:** | **7** |

***Note:*** *A minimum grade of "B" is required for EMS 131◊.*

*See EMS course description* (p. 218)*.*

**Coordinator:** David Hoppe, Ext. 3972

## Emergency Medical Responder

## Emergency Medical Responder Certificate

(formerly EMS First Responder)

**Curriculum EMS.EMR.CERT (C444B)**

The primary focus of the Emergency Medical Responder (EMR) is to initiate immediate lifesaving care to critical patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide lifesaving interventions while awaiting additional Emergency Medical Service (EMS) response and to assist higher-level personnel at the scene and during transport. EMRs function as part of a comprehensive EMS response plan, under medical oversight and perform basic interventions with minimal equipment.

**Semester One**

| | | |
|---|---|---|
| EMS 121 ◊# | Emergency Medical Responder | 3 |
| | **Total Credit Hours:** | **3** |

***Note:*** *A minimum grade of "B" is required for EMS 121◊.*

*See EMS course descriptions* (p. 218)*.*

**Coordinator:** David Hoppe, Ext. 3972

## Horticulture

## Horticulture, Associate in Applied Science

**Curriculum HRT.HRT.AAS (C201A)**

The Horticulture (HRT) program is designed to provide students with the necessary skills to acquire entry-level positions in all fields of Horticulture and related industries, as well as skills for advancement in their career field, self-employment and transfer into a four-year curriculum. Industry fields include landscape design, landscape and grounds maintenance, floral design, greenhouse and garden center management and sustainable horticulture. Students also will develop skills for lifelong learning. Program includes an AAS degree in Horticulture and certificate programs in Landscape Design, Floral Design, Grounds Maintenance and Sustainable Horticulture.

Upon successful completion of the Horticulture program, the graduate will be able to:

- describe the interrelationships of people, society and plants;
- demonstrate how plants function, reproduce and adapt to changing environmental conditions;
- describe the identification, maintenance, cultural requirements, design and growth characteristics of plants;
- integrate appropriate landscape design principles and maintenance practices into landscape projects;
- develop a functional business plan for successful operation and management of a horticulture business; and
- use learned skills to advance in their chosen career and continue professional development through four-year transfer programs.

### Associate in Applied Science Degree

**Semester One (Fall)**

| | | |
|---|---|---|
| BUS 141 ◊ | Introduction to Business | 3 |
| HRT 100 ◊ | Introduction to Horticulture | 4 |
| HRT 125 ◊ | Plants and Society | 4 |
| HRT 145 ◊ | Deciduous Plant Identification | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 17** | |

*HRT 125◊ meets the Mathematics and/or Science general education requirement.*

**Semester Two (Spring)**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| HRT 114 ◊ | Floral Design & Display I | 4 |
| HRT 135 ◊ | Soils and Fertilizers | 3 |
| HRT 225 ◊ | Evergreens, Vines, Groundcovers | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 16** | |

*RHT 101◊, SPE 101◊: Students must complete RHT 101◊ with SPE 101◊, or RHT 101◊ with RHT 102◊. Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Three (Summer)**

| | | |
|---|---|---|
| HRT 154 ◊# | Horticulture Internship | 3 |
| | **Subtotal: 3** | |

*HRT 100◊, HRT 125◊ and HRT 154◊ will be offered in Fall, Spring and Summer semesters.*

**Semester Four (Fall)**

| | | |
|---|---|---|
| HRT 126 ◊ | Plant Propagation/Greenhouse Operations | 3 |
| BIS 105 ◊ | Environmental Biology | 4 |
| HRT 240 ◊ | Landscape Design | 4 |
| HUM 104 ◊ | Humanities Through the Arts | 3 |
| | **Subtotal: 14** | |

**Semester Five (Spring)**

| | | |
|---|---|---|
| ECO 103 ◊ | Microeconomics | 3 |
| HRT 270 | Sustainable Landscape Practices | 3 |
| HRT 285 ◊ | Turf and Lawn Management | 3 |
| HRT 295 ◊# | Landscape CAD and Graphics | 4 |
| | Program electives | 3 |
| | **Subtotal: 16** | |
| | **Total Credit Hours: 66** | |

*See HRT course descriptions* (p. 235).

*Program electives (3): HRT 127◊, HRT 128◊, HRT 261◊, HRT 265◊, HRT 282◊, HRT 296◊*

**Coordinator:** Gary Antonich, Ext. 3550

## Horticulture/Grounds Maintenance Certificate

**Curriculum HRT.GRM.CERT (C401C)**

Designed to facilitate the learner into a career in grounds maintenance. Includes golf course, sports turf and commercial turf maintenance properties.

**Semester One**

| | | |
|---|---|---|
| HRT 100 ◊ | Introduction to Horticulture | 4 |
| HRT 125 ◊ | Plants and Society | 4 |
| HRT 127 ◊ | Entomology: Insects, People and Plants | 3 |
| | Program electives | 3 |
| | **Subtotal: 14** | |

**Semester Two**

| | | |
|---|---|---|
| HRT 128 ◊ | Plant Pathology | 3 |
| HRT 135 ◊ | Soils and Fertilizers | 3 |
| HRT 140 ◊ | Landscape Construction and Maintenance | 4 |
| HRT 285 ◊ | Turf and Lawn Management | 3 |
| | **Subtotal: 13** | |

**Program electives (3):**

| | | |
|---|---|---|
| HRT 126 ◊ | Plant Propagation/Greenhouse Operations | 3 |
| HRT 145 ◊ | Deciduous Plant Identification | 3 |
| HRT 225 ◊ | Evergreens, Vines, Groundcovers | 3 |
| HRT 261 ◊ | Herbaceous Ornamental Plants | 3 |
| HRT 265 ◊ | Vegetable and Herb Gardening | 3 |
| | **Total Credit Hours: 27** | |

*See HRT course descriptions* (p. 235).

**Coordinator:** Gary Antonich, Ext. 3550

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/HorticultureGroundsMaintenanceCertificate/01.0603-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Landscape Design Certificate

**Curriculum HRT.LND.CERT (C401A, formerly C301A)**

Designed for students who wish to concentrate solely on technically-related courses. Students may specialize in landscape design, maintenance and park maintenance in preparation for self-employment or entry-level positions.

**Semester One**

| | | |
|---|---|---|
| HRT 100 ◊ | Introduction to Horticulture | 4 |
| HRT 145 ◊ | Deciduous Plant Identification | 3 |
| HRT 240 ◊ | Landscape Design | 4 |
| | | **Subtotal: 11** |

**Semester Two**

| | | |
|---|---|---|
| HRT 140 ◊ | Landscape Construction and Maintenance | 4 |
| HRT 225 ◊ | Evergreens, Vines, Groundcovers | 3 |
| HRT 295 ◊# | Landscape CAD and Graphics | 4 |
| | | **Subtotal: 11** |
| | | **Total Credit Hours: 22** |

*See HRT course descriptions* (p. 235).

**Coordinator:** Gary Antonich, Ext. 3550

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/HorticultureLandscapeDesignCertificate/01.0605-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Sustainable Agriculture Technology, Associate in Applied Science

**Curriculum HRT.SAG.AAS (C201E)**

Sustainable Agriculture Technology curriculum is designed to provide students the skills necessary to manage an environmentally sound and sustainable urban food production system. Graduates are qualified for numerous positions associated with sustainable agriculture including horticulture, nursery operations, agricultural education and managing food production.

Upon successful completion of the Sustainable Agriculture Technology Associate Degree, the graduate will be able to:

- choose sustainable food production practices for nutritious food;
- evaluate food distribution and storage practices;
- integrate appropriate sustainable practices to promote urban agriculture;
- describe the interrelationships of people, society and plants;
- demonstrate effective written, visual and verbal communication skills; and
- utilize learned skills to advance in chosen career and continue professional development through four-year transfer programs.

### Associate in Applied Science Degree

**Semester One (Fall)**

| | | |
|---|---|---|
| BIS 105 ◊ | Environmental Biology | 4 |
| HRT 125 ◊ | Plants and Society | 4 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| SAT 100 | Principles of Agroecology | 3 |
| SAT 105 | Urban Agriculture Issues | 3 |
| | | **Subtotal: 17** |

*HRT 125◊ meets the Mathematics and/or Science general education requirement.*

*RHT 101◊: Students must complete RHT 101◊ with SPE 101◊, or RHT 101◊ with RHT 102◊. Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Two (Spring)**

| | | |
|---|---|---|
| HRT 135 ◊ | Soils and Fertilizers | 3 |
| SAT 130 | Sustainable Plant Health Care | 3 |
| SAT 140 | Sustainable Organic Plants | 4 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | | **Subtotal: 13** |

**Semester Three (Summer)**

| | | |
|---|---|---|
| HRT 154 ◊# | Horticulture Internship | 3 |
| | | **Subtotal: 3** |

**Semester Four (Fall)**

| | | |
|---|---|---|
| HRT 127 ◊ | Entomology: Insects, People and Plants | 3 |
| HRT 128 ◊ | Plant Pathology | 3 |
| HRT 265 ◊ | Vegetable and Herb Gardening | 3 |
| MAT 122 ◊# | Technical Mathematics | 3 |
| | General education/Humanities | 3 |
| | | **Subtotal: 15** |

**Semester Five (Spring)**

| | | |
|---|---|---|
| ECO 105 ◊ | Consumer Economics | 3 |
| | OR | |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| HRT 126 ◊ | Plant Propagation/Greenhouse Operations | 3 |
| SAT 110 | Natural Resource Management (Soils and Water) | 3 |
| SAT 210 | Sustainable Plant Production for Human Nutrition | 3 |
| SAT 220 | Designing Food Production Systems in Urban Landscaping | 1 |
| SAT 230 | Managing Food Production Systems in the Urban Landscape | 3 |

**Subtotal: 16**

**Total Credit Hours: 64**

*See HRT course descriptions* (p. 235)*; SAT course descriptions* (p. 269).

**Coordinator:** Gary Antonich, Ext. 3550

# Sustainable Agroecology Certificate

**Curriculum HRT.AGR.CERT (C401F)**

Designed for learners who wish to gain an appreciation and practical skills to use sustainable practices that will positively influence the quality of natural ecosystems and human environment.

Upon successful completion of the Sustainable Agroecology certificate program, the student will be able to:

- design and manage a sustainable urban food production system;
- analyze social and political framework;
- prepare solutions to address environmental issues caused by landscape practices; and
- demonstrate and model landscape management practices to provide a healthier environment.

**Semester One**

| | | |
|---|---|---|
| SAT 100 | Principles of Agroecology | 3 |
| SAT 105 | Urban Agriculture Issues | 3 |
| SAT 110 | Natural Resource Management (Soils and Water) | 3 |

**Subtotal: 9**

**Semester Two**

| | | |
|---|---|---|
| SAT 130 | Sustainable Plant Health Care | 3 |
| BIS 205 ◊# | Field Ecology | 4 |

**Subtotal: 7**

**Total Credit Hours: 16**

*See SAT course descriptions* (p. 269).

**Coordinator:** Gary Antonich, Ext. 3550

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/SustainableAgroecologyCertificate/01.0605-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Sustainable Food Production Certificate

**Curriculum HRT.SFD.CERT (C401E)**

Designed for learners who wish to focus on how to produce nutritional food crops and methods to overcome the availability of fresh and nutrition food produce.

Upon successful completion of the Sustainable Food Production Certificate, the learner will be able to:

- choose sustainable food production practices for nutritious food;
- analyze methods of improving nutritious value of food through sustainable food production practices;
- examine government policies and regulations which control production of nutritious food products; and
- appraise techniques of solving the challenges of urban food production.

**Semester One**

| | | |
|---|---|---|
| SAT 100 | Principles of Agroecology | 3 |
| SAT 105 | Urban Agriculture Issues | 3 |

**Subtotal: 6**

**Semester Two**

| | | |
|---|---|---|
| SAT 210 | Sustainable Plant Production for Human Nutrition | 3 |
| SAT 220 | Designing Food Production Systems in Urban Landscaping | 1 |
| SAT 230 | Managing Food Production Systems in the Urban Landscape | 3 |

**Subtotal: 7**

**Total Credit Hours: 13**

*See SAT course descriptions* (p. 269).

**Coordinator:** Gary Antonich, Ext. 3550

# Sustainable Landscape Practices, Associate in Applied Science

**Curriculum HRT.SUS.AAS (C201F)**

Sustainable Landscape Practices offers students an opportunity to acquire specific skills to acquire an entry-level position or self-employment. The associate's degree program provides background in soil and water conservation; appropriate plant selections, use of fertilizers and pesticides with an emphasis on organic materials; reduced use of fossil fuels; infrastructure enhancements such as green roofs and xeriscaping. Students will acquire skills to implement solutions to common landscape practices that have adverse effect on the environment.

Upon successful completion of the Sustainable Landscape Practices Associate Degree, the graduate will be able to:

- describe the interrelationships of people, society and plants;
- demonstrate effective written, visual and verbal communication skills;
- integrate appropriate landscape practices to provide a healthier environment;
- demonstrate sustainable landscape practices in environmental conservation; and
- utilize learned skills to advance in chosen career and continue professional development through four-year transfer programs.

### Associate in Applied Science Degree

**Semester One (Fall)**

| | | |
|---|---|---|
| BIS 105 ◊ | Environmental Biology | 4 |
| HRT 125 ◊ | Plants and Society | 4 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| SAT 100 | Principles of Agroecology | 3 |
| SAT 105 | Urban Agriculture Issues | 3 |
| | **Subtotal: 17** | |

*HRT 125◊ meets the Mathematics and/or Science general education requirement.*

**Semester Two (Spring)**

| | | |
|---|---|---|
| HRT 135 ◊ | Soils and Fertilizers | 3 |
| SAT 130 | Sustainable Plant Health Care | 3 |
| SAT 140 | Sustainable Organic Plants | 4 |
| SAT 170 ◊ | Introduction to Biotechnology | 3 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 16** | |

*RHT 101◊, SPE 101◊: Students must complete RHT 101◊ with SPE 101◊, or RHT 101◊ with RHT 102◊. Students intending to transfer are encouraged to complete all three courses: RHT 101◊, RHT 102◊ and SPE 101◊ to meet university requirements.*

**Semester Three (Summer)**

| | | |
|---|---|---|
| HRT 154 ◊# | Horticulture Internship | 3 |
| | **Subtotal: 3** | |

**Semester Four (Fall)**

| | | |
|---|---|---|
| BIS 205 ◊# | Field Ecology | 4 |
| HRT 265 ◊ | Vegetable and Herb Gardening | 3 |
| HRT 270 | Sustainable Landscape Practices | 3 |
| | General education/Humanities | 3 |
| SAT 272 | Construction of Sustainable Landscaping | 4 |
| | **Subtotal: 17** | |

**Semester Five (Spring)**

| | | |
|---|---|---|
| HRT 126 ◊ | Plant Propagation/Greenhouse Operations | 3 |
| HRT 275 | Innovations in Sustainability | 4 |
| SAT 110 | Natural Resource Management (Soils and Water) | 3 |
| SAT 271 | Design of Sustainable Landscapes | 4 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| PSC 150 ◊ | American National Politics | 3 |
| | OR | |
| SSC 190 ◊ | Contemporary Society | 3 |
| | **Subtotal: 17** | |
| | **Total Credit Hours: 70** | |

*See HRT course descriptions* (p. 235)*; SAT course descriptions* (p. 269).

**Coordinator:** Gary Antonich, Ext. 3550

# Sustainable Landscape Practices Certificate

**Curriculum HRT.SUS.CERT (C401D)**

Provides the student with training in sustainable agriculture and horticulture practices and the necessary background to pursue a career in sustainable agriculture technology. The program includes landscape and home gardening practices that provide conservation and sustainable practices. Topics covered include green roofs, water gardens, natural gardens, xeriscaping and other related sustainable agricultural practices. Students will examine common landscape and agricultural practices that have an adverse effect on the environment and explore solutions to those problems. Environmental aspects of bioenergy also is included.

Upon successful completion of the Sustainable Landscape Practices program, the graduate will be able to:

- describe environmental issues that directly affect landscape and agricultural production practices;
- describe solutions to address environmental issues caused by today's common agricultural and landscape practices;

- list and describe agricultural practices to provide for a healthier environment;
- describe sustainable practices in environmental conservation;
- describe current trends in sustainable practices in agriculture, horticulture and bioenergy;
- use technology procedures to develop sustainable practices; and
- identify related career opportunities.

**Semester One**

| | | |
|---|---|---|
| HRT 100 ◊ | Introduction to Horticulture | 4 |
| HRT 125 ◊ | Plants and Society | 4 |
| HRT 127 ◊ | Entomology: Insects, People and Plants | 3 |
| HRT 270 | Sustainable Landscape Practices | 3 |
| | **Subtotal: 14** | |

*HRT 125◊ meets the Mathematics and/or Science general education requirement.*

**Semester Two**

| | | |
|---|---|---|
| BIS 105 ◊ | Environmental Biology | 4 |
| HRT 135 ◊ | Soils and Fertilizers | 3 |
| HRT 275 | Innovations in Sustainability | 4 |
| | **Subtotal: 11** | |
| | **Total Credit Hours: 25** | |

*See HRT course descriptions* (p. 235).

**Coordinator:** Gary Antonich, Ext. 3550

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/HorticultureSustainableLandscapePracticesCertificate/01.0605-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Hospitality Industry Administration Culinary Arts

# Hospitality Industry Administration Culinary Arts, Associate in Applied Science

**Curriculum HIA.CUL.AAS (C206L)**

The Hospitality Industry Administration Culinary Arts Degree prepares the student for potential positions as food service workers, cooks and potential chefs in restaurants, hotels, country clubs and other food service establishments. Students are trained in hands-on culinary and baking laboratories where the student will practice their skills in quantity food preparation techniques. The degree also includes general education requirements, management training, safety and sanitation training, purchasing, marketing, menu design, nutrition, supervision and labor/food cost control.

Upon completion of this degree the student will be able to:

- apply safety and sanitation in the culinary and baking laboratories by maintaining a valid State of Illinois Sanitation license;
- demonstrate the ability to operate professional equipment;
- apply their knowledge to manage, coach, and supervise a team of culinary professionals;
- improve time management skills by beginning and finishing practical examinations in a timely manner;
- apply their knowledge in food and labor cost control, inventory control and purchasing;
- demonstrate effective written and verbal communication skills;
- perform math calculations necessary for the culinary industry;
- show proficiency in the quantity production of cold and hot food preparation; and
- demonstrate the ability to weigh and measure ingredients properly.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| HIA 100 ◊ | Culinary Mathematics | 2 |
| HIA 110 ◊ | Introduction to Hospitality Industry | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HIA 128 ◊ | Introduction to Baking and Pastry | 3 |
| HIA 132 ◊ | Nutrition | 2 |
| HIA 133 ◊ | Menu Writing | 2 |
| HIA 150 ◊ | Food Preparation Essentials & Theory | 3 |
| | **Subtotal: 17** | |

*HIA 115◊: ACC 100◊ meet the Mathematics and/or Science general education requirement.*

**Semester Two (Spring)**

| | | |
|---|---|---|
| HIA 120 ◊ | Dining Room Service | 3 |
| HIA 130 ◊ | Culinary Arts Quantity-Food Preparation I | 3 |
| HIA 225 ◊# | Hospitality Supervision | 3 |
| HIA 250 ◊ | Hospitality Marketing | 3 |
| HIA 276 ◊ | Food & Beverage Purchasing/Cost Control | 3 |
| | General education/Humanities | 3 |
| | **Subtotal: 18** | |

**Semester Three (Fall)**

| | | |
|---|---|---|
| ACC 100 ◊ | Basic Accounting I | 3 |
| HIA 228 ◊# | Specialty Baking and Pastry | 3 |
| HIA 255 ◊ | Culinary Arts-Garde Manger | 3 |
| HIA 260 ◊# | Culinary Arts Quantity-Food Preparation II | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | Program electives | 2 |
| | **Subtotal: 17** | |

*ACC 100◊ meet the Mathematics and/or Science general education requirement.*

**Semester Four (Spring)**

| | | |
|---|---|---|
| HIA 277 ◊ | Catering Management | 3 |
| HIA 295 ◊# | Cooperative Work Experience | 2 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| | OR | |
| PSC 150 ◊ | American National Politics | 3 |
| | OR | |
| SSC 190 ◊ | Contemporary Society | 3 |
| | Program elective | 1 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 67** | |

*See HIA course descriptions* (p. 229).

*See Humanities General Education requirements* (p. 101).

Program electives (3): CIS 101◊; HIA 114◊, HIA 117◊, HIA 122◊, HIA 202◊, HIA 205◊, HIA 207◊, HIA 208◊, HIA 209◊, HIA 210◊, HIA 211◊, HIA 212◊, HIA 213◊, HIA 214◊, HIA 215◊, HIA 216◊, HIA 218◊, HIA 280◊, HIA 285◊, HIA 296◊; Italian, Spanish

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

# Culinary Training Certificate

**Curriculum HIA.CUL.CERT (C420A)**

This program, offered in conjunction with the Chefs of Cuisine Association of Chicago, is designed for individuals interested in becoming cooks and chefs. The strength of this program lies in required, on-the-job training combined with required academic courses.

**Semester One**

| | | |
|---|---|---|
| HIA 110 ◊ | Introduction to Hospitality Industry | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HIA 128 ◊ | Introduction to Baking and Pastry | 3 |
| HIA 132 ◊ | Nutrition | 2 |
| HIA 133 ◊ | Menu Writing | 2 |
| HIA 150 ◊ | Food Preparation Essentials & Theory | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| HIA 130 ◊ | Culinary Arts Quantity-Food Preparation I | 3 |
| HIA 255 ◊ | Culinary Arts-Garde Manger | 3 |
| HIA 276 ◊ | Food & Beverage Purchasing/Cost Control | 3 |
| HIA 295 ◊# | Cooperative Work Experience | 2 |
| | Program electives | 3 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 30** | |

*See HIA course descriptions* (p. 229).

Program electives (3): HIA 118◊, HIA 124◊, HIA 127◊, HIA 129◊, HIA 134◊, HIA 202◊, HIA 205◊, HIA 207◊, HIA 208◊, HIA 209◊, HIA 211◊, HIA 212◊, HIA 213◊, HIA 214◊, HIA 216◊, HIA 218◊, HIA 296◊

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/CulinaryTrainingCertificate/12.0503-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Hospitality Industry Administration/Baking and Pastry

# Hospitality Industry Administration/Baking and Pastry, Associate in Applied Science

**Curriculum HIA.BKG.AAS (C206M)**

The Baking and Pastry degree will provide students with comprehensive, hands-on experience in both the fundamental and advanced skills to succeed in the baking and pastry industry. Students will obtain the skills necessary to produce quality bakery products from scratch. The student will also obtain knowledge in human resource training; food cost control and advanced decorating techniques. The degree program will prepare students to become pastry chefs in hotels, restaurants and bakeries, or to own and operate their own bakery business.

Upon successful completion of the Hospitality Industry Administration Baking and Pastry degree, the graduate will be able to:

- apply safety and sanitation skills in the bake shop by maintaining a valid State of Illinois Sanitation License;
- improve time management skills by beginning and finishing practical projects on time. This will be measured by practical exams given throughout the program;
- demonstrate effective written and verbal communication skills;
- demonstrate the ability to operate professional equipment;
- apply their knowledge of food cost control, purchasing and inventory control;
- demonstrate proficiency in the skill of working with a pastry bag;
- perform math calculations necessary for the baking and pastry industry;
- demonstrate the ability to weigh and measure ingredients properly;
- apply their knowledge to manage, coach and supervise a team of employees; and
- show proficiency in production, decoration and assembly of various pastries, cakes, breads, banquet and plated presentations.

**Semester One**

| | | |
|---|---|---|
| HIA 110 ◊ | Introduction to Hospitality Industry | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HIA 127 ◊# | Cake & Pastry Decoration | 3 |
| HIA 128 ◊ | Introduction to Baking and Pastry | 3 |
| HIA 150 ◊ | Food Preparation Essentials & Theory | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 17** | |

**Semester Two**

| | | |
|---|---|---|
| HIA 100 ◊ | Culinary Mathematics | 2 |
| HIA 124 ◊# | Laminated Doughs | 2 |
| HIA 129 ◊ | Chocolate | 2 |
| HIA 130 ◊ | Culinary Arts Quantity-Food Preparation I | 3 |
| HIA 132 ◊ | Nutrition | 2 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities | 3 |
| | **Subtotal: 17** | |

**Semester Three**

| | | |
|---|---|---|
| HIA 134 ◊# | Artisan Breads | 3 |
| HIA 227 ◊# | Advanced Cake Decoration | 3 |
| HIA 228 ◊# | Specialty Baking and Pastry | 3 |
| HIA 274 ◊# | Retail Bakery Management | 4 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| | OR | |
| PSC 150 ◊ | American National Politics | 3 |
| | OR | |
| SSC 190 ◊ | Contemporary Society | 3 |
| | **Subtotal: 18** | |

**Semester Four**

| | | |
|---|---|---|
| ACC 100 ◊ | Basic Accounting I | 3 |
| HIA 225 ◊# | Hospitality Supervision | 3 |
| HIA 250 ◊ | Hospitality Marketing | 3 |
| HIA 276 ◊ | Food & Beverage Purchasing/Cost Control | 3 |
| HIA 277 ◊ | Catering Management | 3 |
| HIA 295 ◊# | Cooperative Work Experience | 2 |
| | **Subtotal: 18** | |

*ACC 100◊ meet the Mathematics and/or Science general education requirement.*

**Total Credit Hours: 70**

*See HIA course descriptions* (p. 229).

*See Humanities General Education requirements* (p. 101).

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

# Baking and Pastry Certificate

**Curriculum HIA.BKG.CERT (C306H)**

The Baking and Pastry certificate will provide students with comprehensive, hands-on experience in the fundamentals of baking and pastry arts. Students will obtain necessary skills to produce quality bakery products from scratch. Upon completion of the program, students are employable as entry-level bakery workers and assistant pastry chefs in a variety of commercial food service establishments including retail baking, in-store bakeries, and creating bakery and pastry items for restaurants and hotels. Advancement to positions of baker, bakery management and/or pastry chef may be achieved with additional work experience.

**Semester One**

| | | |
|---|---|---|
| HIA 110 ◊ | Introduction to Hospitality Industry | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HIA 128 ◊ | Introduction to Baking and Pastry | 3 |
| HIA 132 ◊ | Nutrition | 2 |
| HIA 276 ◊ | Food & Beverage Purchasing/Cost Control | 3 |

**Subtotal: 13**

**Semester Two**

| | | |
|---|---|---|
| HIA 127 ◊# | Cake & Pastry Decoration | 3 |
| HIA 130 ◊ | Culinary Arts Quantity-Food Preparation I | 3 |
| HIA 134 ◊# | Artisan Breads | 3 |
| HIA 228 ◊# | Specialty Baking and Pastry | 3 |
| HIA 295 ◊# | Cooperative Work Experience | 2 |
| | Program electives | 3 |

**Subtotal: 17**

**Total Credit Hours: 30**

*See HIA course descriptions* (p. 229).

Program electives (3): HIA 129◊, HIA 202◊, HIA 205◊, HIA 207◊, HIA 208◊, HIA 209◊, HIA 211◊, HIA 212◊, HIA 213◊, HIA 214◊, HIA 216◊, HIA 218◊, HIA 296◊

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/BakingAndPastryCertificate/12.0501-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Beverage Management Certificate

**Curriculum HIA.BVM.CERT (C306J)**

The Beverage Management Certificate will provide students with the skills necessary to manage, own or operate a beverage outlet. These outlets include cocktail bars in restaurants, hotels, casinos, banquet halls, night clubs, country clubs, catering operations, sports bars and neighborhood pubs. The students will learn and practice the art of preparing classical and fusion-style cocktails. The certificate also includes a Basic Sommelier course and a Food and Wine Pairing course. The student will receive a valid Training and Intervention Procedures (TIPS) beverage service license, The State of Illinois Beverage Alcohol Service Sellers Education Training (BASSET) license and the State of Illinois Food Safety and Sanitation license.

### Program Prerequisites:

Student must be at least 21 years old and show proof of age by showing a valid driver's license, a valid State ID card or a valid passport.

**Semester One (Fall)**

| | | |
|---|---|---|
| HIA 100 ◊ | Culinary Mathematics | 2 |
| HIA 101 | Knife Skills | 2 |
| HIA 110 ◊ | Introduction to Hospitality Industry | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HIA 117 ◊ | Beverage Management | 2 |
| HIA 119# | Introduction to Sommelier | 3 |
| HIA 150 ◊ | Food Preparation Essentials & Theory | 3 |

**Subtotal: 17**

**Semester Two (Spring)**

| | | |
|---|---|---|
| HIA 120 ◊ | Dining Room Service | 3 |
| HIA 206# | Food and Wine Pairing | 3 |
| HIA 217# | Mixology | 3 |
| HIA 276 ◊ | Food & Beverage Purchasing/Cost Control | 3 |
| HIA 280 ◊# | Introduction to Wines & Spirits | 3 |

**Subtotal: 15**

**Total Credit Hours: 32**

*See HIA course descriptions* (p. 229).

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/BeverageManagementCertificate/52.0905-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Bread Baking Certificate

**Curriculum HIA.BRD.CERT (C406N)**

Designed for students who are interested in specializing in bread making techniques. The students also will improve their skills in bread decoration and prepare them for an entry-level position in a bread baking operation.

The students can complete this three-course certificate in the spring semester, all at once, or two courses in the fall semester and one course in the spring. The only class that is offered in the spring is HIA 124◊, Laminated Doughs.

| | | |
|---|---|---|
| **Semester One** | | |
| HIA 128 ◊ | Introduction to Baking and Pastry | 3 |
| HIA 134 ◊# | Artisan Breads | 3 |
| | **Subtotal:** | **6** |
| **Semester Two** | | |
| HIA 124 ◊# | Laminated Doughs | 2 |
| | **Subtotal:** | **2** |
| | **Total Credit Hours:** | **8** |

*See HIA course descriptions* (p. 229).

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

## Cake Decoration Certificate

**Curriculum HIA.CKD.CERT (C406M)**

Designed for students who are interested in specializing in cake decorating techniques. The students will improve their skills in cake decoration and prepare for an entry-level position in a retail bakery operation.

The students can complete this three-course certificate in the fall semester, all at once, or two courses in the fall semester and one course in the spring.

| | | |
|---|---|---|
| **Semester One** | | |
| HIA 127 ◊# | Cake & Pastry Decoration | 3 |
| HIA 128 ◊ | Introduction to Baking and Pastry | 3 |
| | **Subtotal:** | **6** |
| **Semester Two** | | |
| HIA 227 ◊# | Advanced Cake Decoration | 3 |
| | **Subtotal:** | **3** |
| | **Total Credit Hours:** | **9** |

*See HIA course descriptions* (p. 229).

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

## Hospitality Industry Administration Hotel/Motel Management

## Hospitality Industry Administration Hotel/Motel Management, Associate in Applied Science

**Curriculum HIA.HMM.AAS (C206H)**

Prepares the students for potential positions as front office supervisors, sales managers, catering managers or other entry-level management positions in the hotel industry. Students gain knowledge of front office operations, convention management, travel industry, and sales and catering. They develop skill in basic food production and service, supervision, cost control and planning.

### Associate in Applied Science Degree

| | | |
|---|---|---|
| **Semester One** | | |
| HIA 110 ◊ | Introduction to Hospitality Industry | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HIA 120 ◊ | Dining Room Service | 3 |
| HIA 122 ◊ | Introduction to Convention Management | 3 |
| HIA 150 ◊ | Food Preparation Essentials & Theory | 3 |
| HIA 210 ◊ | Hotel & Motel Front Office Operations | 3 |
| | **Subtotal:** | **17** |
| **Semester Two** | | |
| HIA 117 ◊ | Beverage Management | 2 |
| HIA 123 ◊ | Introduction to Travel & Tourism | 3 |
| HIA 130 ◊ | Culinary Arts Quantity-Food Preparation I | 3 |
| HIA 215 ◊ | Housekeeping for the Hospitality Industry | 3 |
| HIA 225 ◊# | Hospitality Supervision | 3 |
| HIA 250 ◊ | Hospitality Marketing | 3 |
| | **Subtotal:** | **17** |
| **Semester Three** | | |
| HIA 100 ◊ | Culinary Mathematics | 2 |
| HIA 290 ◊# | Dining Room Management | 3 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| | OR | |
| PSC 150 ◊ | American National Politics | 3 |
| | OR | |
| SSC 190 ◊ | Contemporary Society | 3 |
| | **Subtotal:** | **16** |

**Semester Four**

| | | |
|---|---|---|
| ACC 100 ◊ | Basic Accounting I | 3 |
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| HIA 277 ◊ | Catering Management | 3 |
| HIA 295 ◊# | Cooperative Work Experience | 2 |
| | General education/Humanities | 3 |
| | Program electives | 2 |

**Subtotal: 17**

*ACC 100◊ meets the Mathematics and/or Science general education requirement.*

**Total Credit Hours: 67**

*See HIA course descriptions* (p. 229).

*See Humanities General Education requirements* (p. 101).

Program electives (2): HIA 128◊, HIA 132◊, HIA 133◊, HIA 228◊, HIA 255◊, HIA 260◊, HIA 276◊, HIA 280◊, HIA 285◊, HIA 296◊; Italian, Spanish

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

## Hospitality Industry Administration Hotel/Motel Certificate

**Curriculum HIA.HMM.CERT (C406F)**

The certificate program prepares students for potential positions as front desk clerks, reservationists, concierge, guest attendants and other entry-level positions in the hotel industry. Students develop skill in guest handling procedures, basic supervision, housekeeping and planning catering functions. This program may be completed by full-time students in one year. All courses can be applied to the AAS in Hotel and Motel Management.

**Semester One (Fall)**

| | | |
|---|---|---|
| ACC 100 ◊ | Basic Accounting I | 3 |
| HIA 110 ◊ | Introduction to Hospitality Industry | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HIA 122 ◊ | Introduction to Convention Management | 3 |
| HIA 210 ◊ | Hotel & Motel Front Office Operations | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |

**Subtotal: 17**

**Semester Two (Spring)**

| | | |
|---|---|---|
| HIA 215 ◊ | Housekeeping for the Hospitality Industry | 3 |
| HIA 225 ◊# | Hospitality Supervision | 3 |
| HIA 250 ◊ | Hospitality Marketing | 3 |
| HIA 277 ◊ | Catering Management | 3 |
| HIA 295 ◊# | Cooperative Work Experience | 2 |

**Subtotal: 14**

**Total Credit Hours: 31**

*See HIA course descriptions* (p. 229).

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/HIAHotelMotelCertificate/52.0904-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Hospitality Industry Administration/Restaurant Management

## Hospitality Industry Administration/Restaurant Management, Associate in Applied Science

**Curriculum HIA.RST.AAS (C206F)**

Prepares the students for potential positions as restaurant managers or restaurant owners. Students gain knowledge of all phases of restaurant operation. They develop skill in food preparation, service, cost control, purchasing, menu planning and supervision.

### Associate in Applied Science Degree

**Semester One (Fall)**

| | | |
|---|---|---|
| HIA 100 ◊ | Culinary Mathematics | 2 |
| HIA 110 ◊ | Introduction to Hospitality Industry | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HIA 120 ◊ | Dining Room Service | 3 |
| HIA 132 ◊ | Nutrition | 2 |
| HIA 133 ◊ | Menu Writing | 2 |
| HIA 150 ◊ | Food Preparation Essentials & Theory | 3 |

**Subtotal: 17**

**Semester Two (Spring)**

| | | |
|---|---|---|
| HIA 117 ◊ | Beverage Management | 2 |
| HIA 128 ◊ | Introduction to Baking and Pastry | 3 |
| HIA 130 ◊ | Culinary Arts Quantity-Food Preparation I | 3 |
| HIA 225 ◊# | Hospitality Supervision | 3 |
| HIA 250 ◊ | Hospitality Marketing | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |

**Subtotal: 17**

**Semester Three (Fall)**

| | | |
|---|---|---|
| ACC 100 ◊ | Basic Accounting I | 3 |
| HIA 255 ◊ | Culinary Arts-Garde Manger | 3 |
| HIA 260 ◊# | Culinary Arts Quantity-Food Preparation II | 3 |
| HIA 290 ◊# | Dining Room Management | 3 |

| | | |
|---|---|---|
| HTH 281 ◊ | First Aid & CPR | 2 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 17** | |

*ACC 100◊ meets the Mathematics and/or Science general education requirement.*

**Semester Four (Spring)**

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| HIA 276 ◊ | Food & Beverage Purchasing/Cost Control | 3 |
| HIA 295 ◊# | Cooperative Work Experience | 2 |
| HIS 151 ◊ | History of the United States to 1877 | 3 |
| | OR | |
| HIS 152 ◊ | History of the United States Since 1877 | 3 |
| | OR | |
| PSC 150 ◊ | American National Politics | 3 |
| | OR | |
| SSC 190 ◊ | Contemporary Society | 3 |
| | General education/Humanities | 3 |
| | Program electives | 3 |
| | **Subtotal: 17** | |
| | **Total Credit Hours: 68** | |

*See HIA course descriptions* (p. 229).

*See Humanities General Education requirements* (p. 101).

Program electives (3): HIA 122◊, HIA 210◊, HIA 215◊, HIA 228◊, HIA 277◊, HIA 280◊, HIA 285◊, HIA 296◊; Italian, Spanish

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

# Hospitality Industry Administration/Restaurant Management Certificate

**Curriculum HIA.RST.CERT (C306C)**

The Hospitality Industry Administration certificate program is designed for individuals who wish to concentrate solely on technically related courses leading to entry-level employment.

**Semester One**

| | | |
|---|---|---|
| HIA 110 ◊ | Introduction to Hospitality Industry | 3 |
| HIA 115 ◊ | Food Sanitation & Safety | 2 |
| HIA 120 ◊ | Dining Room Service | 3 |
| HIA 132 ◊ | Nutrition | 2 |
| HIA 133 ◊ | Menu Writing | 2 |
| HIA 150 ◊ | Food Preparation Essentials & Theory | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| ACC 100 ◊ | Basic Accounting I | 3 |
| HIA 117 ◊ | Beverage Management | 2 |
| HIA 128 ◊ | Introduction to Baking and Pastry | 3 |
| HIA 130 ◊ | Culinary Arts Quantity-Food Preparation I | 3 |
| HIA 260 ◊# | Culinary Arts Quantity-Food Preparation II | 3 |
| | OR | |
| HIA 290 ◊# | Dining Room Management | 3 |
| HTH 104 ◊ | Science of Personal Health | 2 |
| | OR | |
| HTH 281 ◊ | First Aid & CPR | 2 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 19** | |
| | **Total Credit Hours: 34** | |

*See HIA course descriptions* (p. 229).

**Coordinator:** Denise Smith-Gaborit, Ext. 3624

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/HIARestaurantManagementCertificate/52.0905-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Human Resource Management

# Human Resource Management, Associate in Applied Science

**Curriculum BUS.HRM.AAS (C206J)**

Human Resources Management program will assist the student to understand the functions of Human Resource Management, which involves all management decisions, activities, and practices that directly affect or influence the effectiveness of persons within organizations.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| ACC 100 ◊ | Basic Accounting I | 3 |
| | OR | |
| ACC 101 ◊ | Financial Accounting | 4 |
| BUS 141 ◊ | Introduction to Business | 3 |
| BUS 200 ◊ | Introduction to Human Resource Management | 3 |

| | | |
|---|---|---|
| CIS 101 ◊ | Computer Systems & Business Applications | 3 |
| | OR | |
| BUS 107 ◊ | Microsoft Office in Business Applications | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 15-16** | |

**Semester Two**

| | | |
|---|---|---|
| BUS 161 ◊ | Business Law I | 3 |
| BUS 210 ◊# | Recruitment and Selection | 3 |
| BUS 220 ◊# | Training and Development | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3 |
| | **Subtotal: 15** | |

**Semester Three**

| | | |
|---|---|---|
| BUS 188 ◊ | Business Writing | 3 |
| BUS 240 ◊# | Compensation and Benefits | 3 |
| BUS 260 ◊ | Labor Law | 3 |
| BUS 270 ◊# | Employee Health and Safety | 3 |
| ECO 102 ◊ | Macroeconomics | 3 |
| | **Subtotal: 15** | |

*ECO 102◊ meets the Social and Behavioral Science General Education requirement.*

**Semester Four**

| | | |
|---|---|---|
| BUS 146 ◊ | Business Computations | 3 |
| BUS 150 ◊ | Principles of Management | 3 |
| BUS 205 ◊# | Problem Solving for Human Resources | 3 |
| BUS 250 ◊# | Employee and Labor Relations | 3 |
| | Program electives | 3 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 60-61** | |

*See BUS course descriptions* (p. 191).

*See Humanities or Fine Arts General Education requirements* (p. 101).

Program electives (3): recommended BUS 262◊, or any ACC or BUS course.

**For students intending to go directly into the workforce take BUS 146◊. (BUS 146◊ meets Triton's Mathematics and/or Science general education requirement.)*

**For students intending to transfer to a 4-year college or university take one of the IAI Mathematics or Science courses.*

**Coordinator:** Dr. William M. Griffin, Ext. 3579 or williamgriffin@triton.edu.

# Human Resource Management Certificate

**Curriculum BUS.HRM.CERT (C306F)**

The Human Resource Management certificate program will assist the learner in understanding the basic concepts of human resource management. A certificate program designed for learners who wish to specialize in the expanding field of human resource management, as well as beginning to prepare for the PHR/SPHR certification.

**Semester One**

| | | |
|---|---|---|
| BUS 141 ◊ | Introduction to Business | 3 |
| BUS 171 ◊ | Introduction to Customer Service | 3 |
| BUS 200 ◊ | Introduction to Human Resource Management | 3 |
| BUS 210 ◊# | Recruitment and Selection | 3 |
| BUS 220 ◊# | Training and Development | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| BUS 205 ◊# | Problem Solving for Human Resources | 3 |
| BUS 240 ◊# | Compensation and Benefits | 3 |
| BUS 250 ◊# | Employee and Labor Relations | 3 |
| BUS 260 ◊ | Labor Law | 3 |
| BUS 270 ◊# | Employee Health and Safety | 3 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 30** | |

*See BUS course descriptions* (p. 191).

**Coordinator:** Dr. William M. Griffin, Ext. 3579

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/HumanResourceManagementCertificate/52.1001-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Nuclear Medicine Technology

*(See Nuclear Medicine Technology* (p. 172) *in the Selective Admission Health Program section)*

# Nursing

*(See Nursing* (p. 173) *in the Selective Admission Health Program section)*

# Ophthalmic Technician

*(See Ophthalmic Technician* (p. 175) *in the Selective Admission Health Program section)*

# Personal Trainer

# Personal Trainer Certificate

**Curriculum HSE.PTR.CERT (C336A)**

Provides the educational background specific to individuals pursuing job opportunities within the Sport and Fitness industry. The curriculum provides a basic foundation needed to analyze human body functions and the means to train the body to achieve the highest level of performance. Prepares the individual with the knowledge and skills for certification testing and accreditation by certifying boards (i.e., American College of Exercise). Job opportunities include personal trainer and/or positions available at fitness locations (i.e., health clubs, hospital fitness centers, corporate fitness centers, etc.).

**Program prerequisite**: Students must have current CPR certification or must have completed HTH 281◊ prior to enrolling in this program.

**Semester One**

| | | |
|---|---|---|
| BIS 101 ◊ | Human Biology | 4 |
| HTH 104 ◊ | Science of Personal Health | 2 |
| HTH 120 ◊ | Nutrition Science | 3 |
| PED 153 ◊ | Foundations of Exercise | 3 |
| PED 195 ◊ | Introduction to Sport Management | 3 |
| | | **Subtotal: 15** |

**Semester Two**

| | | |
|---|---|---|
| PED 168 ◊ | Theory and Practice of Weight Training | 2 |
| PED 200 ◊ | Introduction to Biomechanics | 3 |
| PED 210 ◊ | Exercise Testing and Prescription | 3 |
| PED 230 ◊# | Techniques in Sport & Exercise Science | 1 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | Electives | 3 |
| | | **Subtotal: 15** |

**Recommended electives (3):**

| | | |
|---|---|---|
| HTH 175 ◊ | Drug & Alcohol Education | 3 |
| HTH 202 ◊ | Culture and Food | 3 |
| HTH 220 ◊ | Athletic Training Techniques | 3 |
| HTH 221 ◊ | Sport Specific Training and Rehabilitation | 3 |
| PED | Activity courses (numbered 150 and below) | 1-3 |
| PED 159 ◊ | Selected Team and Recreation Sports | 3 |
| PED 189 ◊# | Water Safety Instructor | 2 |
| PED 194 ◊ | Principles of Coaching | 3 |
| PED 196 ◊ | Sport and Exercise Psychology | 3 |
| PED 197 ◊ | Sociology of Sport | 3 |
| PED 198 ◊ | Lifeguarding | 1 |
| PED 275 ◊ | Facilities Management | 3 |
| PED 296 ◊ | Special Topics in Physical Education | 0.5 - 4 |
| PSY 207 ◊# | Health Psychology | 3 |

*Activity courses: A maximum of three credit hours will be granted towards the certificate.*

**Total Credit Hours: 30**

*See PED course descriptions* (p. 257).

**Chairperson:** Julianne Murphy, Ext. 3087

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/PersonalTrainerCertificate/31.0505-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Clinical Exercise Specialist Advanced Certificate

**Curriculum HSE.XSP.CERT (C536A)**

Clinical Exercise Specialist Certificate prepares students who are either currently enrolled or have completed the Personal Trainer Certification program (C336A) and current fitness professionals the opportunity to educate themselves on training individuals within the community who present with special considerations and diseases. Students will learn to competently and professionally deliver high-quality and appropriate health and fitness training to the growing number of individuals suffering from diseases or specific conditions such as a handicap, pregnancy, or various ages and cognitive levels of functioning accomplished by providing the student with the necessary knowledge and skills regarding basic pathophysiology, disease symptomatology, treatment (both conventional and exercise-related) and special considerations regarding obesity, conditions, and diseases in order to prepare the student for related certification testing such as Advanced Health and Fitness Specialist via American Council on Exercise or American College of Sport Medicine.

**Semester One**

| | | |
|---|---|---|
| HTH 120 ◊ | Nutrition Science | 3 |
| HTH 215 ◊ | Lifestyle Diseases | 3 |
| HTH 216 ◊# | Wellness and Exercise for Special Populations | 3 |
| | | **Total Credit Hours: 9** |

*See HTH course descriptions* (p. 237).

**Chairperson:** Julianne Murphy, Ext. 3087

## Group Fitness Instructor Advanced Certificate

**Curriculum HSE.GPT.CERT (C536C)**

Provides the educational background specific to individuals pursuing job opportunities within the Sport, Recreation and Fitness industry. The curriculum provides a basic foundation needed to instruct group fitness classes and prepares the individual with the knowledge and skills for certification testing and accreditation by certifying organizations (i.e., American Council on Exercise.) Job opportunities include group fitness instructor and/or positions available at sport, recreation or fitness facilities (i.e., health clubs, park districts, recreation centers, corporate fitness centers, hospital fitness facilities, etc.).

**Semester One**

| | | |
|---|---|---|
| PED 116 ◊ | Group Exercise | 1 |
| PED 153 ◊ | Foundations of Exercise | 3 |
| PED 172 ◊ | Group Fitness Instructor | 3 |

**Total Credit Hours: 7**

*See PED course descriptions* (p. 257).

**Chairperson:** Julianne Murphy, Ext. 3087

## Sports Conditioning Advanced Certificate

**Curriculum HSE.SCP.CERT (C536B)**

An entry-level education in the field of sports conditioning or a beginning foundation to become a Certified Strength and Conditioning Specialist (CSCS), which is an advanced training certificate offered through the National Strength and Conditioning Association (NSCA). To become a CSCS, students can earn this certificate and then transfer to a university to earn a bachelor's degree in Exercise Science and pass the CSCS examination offered through the NSCA. Current personal trainers would also benefit from this certificate to upgrade their skills and knowledge to advance in training athletes with sports conditioning exercises and protocols.

**Semester One**

| | | |
|---|---|---|
| PED 153 ◊ | Foundations of Exercise | 3 |
| PED 180 ◊ | Strength Conditioning and Performance | 3 |
| PED 196 ◊ | Sport and Exercise Psychology | 3 |

**Total Credit Hours: 9**

*See PED course descriptions* (p. 257).

**Chairperson:** Julianne Murphy, Ext. 3087

# Renewable Energy Technology

## Renewable Energy Technology, Associate in Applied Science

**Curriculum BIS.REN.AAS (C260A)**

The Renewable Energy Technology Associate in Applied Science degree emphasizes basic techniques and skills necessary for entry-level employment in the alternative energy industry. Students acquire proficiency in electricity and magnetism, controls, PhotoVoltaics (PV), wind, energy efficiency, effective communications and employment skills.

Program graduates may seek entry-level employment in companies, such as solar installation, wind, energy auditing and weatherization and may be employed as solar technicians, wind technicians, and energy auditors. Some may be entrepreneurial and may choose to start their own renewable energy companies. The Renewable Energy Technology curriculum is designed to meet the increasing demands for skilled renewable energy technicians in solar, wind, and energy efficiency. Course work emphasizes safety, electricity and magnetism, and controls, in addition to renewable energy technologies.

### Associate in Applied Science Degree

**Semester One (Fall)**

| | | |
|---|---|---|
| ARC 102 | OSHA 10-Hour Construction Training | 1 |
| ENT 104 ◊ | Electricity Basic Fundamentals | 3 |
| REN 100 | Introduction to Renewable Energy | 3 |
| REN 110# | ARC Flash Prevention | 1 |
| REN 120# | Photovoltaic Design Fundamentals | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |

**Subtotal: 14**

**Semester Two (Spring)**

| | | |
|---|---|---|
| ENT 115 ◊ | Fluid Power | 3 |
| ENT 202# | Electricity Sustainable Applications | 4 |
| ENT 204 | Programmable Logic Controllers I | 3 |
| MAT 114 ◊# | Plane Trigonometry | 3 |
| REN 130# | National Electrical Code and Grid-Tie Installations | 4 |

**Subtotal: 17**

**Semester Three**

| | | |
|---|---|---|
| PHY 101 ◊# | General Physics (Mechanics, Heat & Sound) | 5 |
| REN 200# | Photovoltaic System Integrator | 3 |
| REN 210# | Advanced Photovoltaic On/Off Grid Installations | 3 |
| REN 220# | Wind Power Generation Design Fundamentals | 3 |

| | | |
|---|---|---|
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| | OR | |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | | **Subtotal: 17** |

**Semester Four (Fall)**

| | | |
|---|---|---|
| ECO 100 ◊ | Principles of Economics | 3 |
| ENT 206# | Programmable Logic Controllers II | 4 |
| PHL 103 ◊ | Ethics | 3 |
| REN 230# | Wind Turbine Maintenance | 3 |
| REN 240# | Energy Auditing and Building Weatherization Fundamentals | 3 |
| | | **Subtotal: 16** |
| | | **Total Credit Hours: 64** |

*See REN course descriptions* (p. 267).

**Coordinator:** TBA, Ext. 3313

## Radiologic Technology

*(See Radiologic Technology* (p. 176) *in the Selective Admission Health Program section)*

## Sterile Processing Technician

*(See Sterile Processing Technician Certificate* (p. 177) *in the Selective Admission Health Program section)*

## Surgical Technology

*(See Surgical Technology Degree* (p. 177) *in the Selective Admission Health Program section)*

## Visual Communication—Graphic Design

## Visual Communication—Graphic Design, Associate in Applied Science

**Curriculum VIC.VIC.AAS (C248C)**

Offers students an opportunity to acquire specific skills in the diverse industry of Visual Communication-Graphic Design. The associate's degree program provides background in art and design theories, typography and layout, print, web, photography and digital media. Computer skills are developed through design, projects using software, including Adobe Creative Suite and others.

Qualified individuals may find employment in advertising agencies, art departments and media studios. Typical job titles include: Graphic Designer, Web Designer, Photography Assistant and Media Assistant.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| ART 119 ◊ | Two-Dimensional Design | 3 |
| | OR | |
| VIC 104 ◊ | Computer Art I | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| VIC 100 ◊ | Graphic Design | 3 |
| VIC 160 ◊ | History of Photography | 3 |
| VIC 161 ◊ | Introduction to Photoshop | 3 |
| | | **Subtotal: 15** |

**Semester Two**

| | | |
|---|---|---|
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| VIC 121 ◊ | Introduction to Adobe InDesign | 3 |
| VIC 142 ◊ | Introduction to Illustrator | 3 |
| VIC 162 ◊ | Digital Photography | 3 |
| MCM 150 ◊ | Film History and Appreciation | 3 |
| | | **Subtotal: 15** |

**Semester Three**

| | | |
|---|---|---|
| VIC 163 ◊ | Digital Studio Photography | 3 |
| VIC 172 ◊# | Web Page Design | 3 |
| VIC 202 ◊# | Advanced InDesign and Typography | 3 |
| VIC 204# | Digital Mixed Media I | 3 |
| VIC 242 ◊# | Advanced Illustrator | 3 |
| VIC 261 ◊# | Advanced Photoshop | 3 |
| | | **Subtotal: 18** |

**Semester Four**

| | | |
|---|---|---|
| VIC 282 ◊# | Portfolio for Graphic Design | 3 |
| VIC 285 ◊ | Digital Video | 3 |
| | OR | |
| VIC 190# | Introduction to Digital Media and Animation | 3 |
| | General education/Mathematics and/or Science | 3 |
| | General education/Social and Behavioral Sciences | 6 |
| | Program electives | 3 |
| | | **Subtotal: 18** |
| | | **Total Credit Hours: 66** |

*See VIC course descriptions* (p. 275).

Program electives (3): ART 117◊, ART 119◊, ART 125◊, MCM 160◊, VIC 165, VIC 190, VIC 205, VIC 213◊, VIC 263, VIC 264◊, VIC 272◊, VIC 275, VIC 286◊, VIC 288◊, VIC 296◊

**Coordinator:** Lorette Dodt, Ext. 3519

# Visual Communication—Graphic Design Certificate

**Curriculum VIC.GRD.CERT (C348C)**

Offers students an opportunity to acquire skills in diverse industry of Visual Communication-Graphic Design. The certificate program provides background in art and design theories, typography and layout, print, web, photography and media. Computer skills are developed through design, projects using software, including Adobe Creative Suite and other industry standard software.

Qualified individuals may find employment in advertising agencies, art departments and media studios. Typical job titles include: Graphic Designer, Web Designer, Design Assistant and Media Specialist.

| | | |
|---|---|---|
| **Semester One** | | |
| ART 119 ◊ | Two-Dimensional Design | 3 |
| | OR | |
| VIC 104 ◊ | Computer Art I | 3 |
| | | |
| VIC 100 ◊ | Graphic Design | 3 |
| VIC 142 ◊ | Introduction to Illustrator | 3 |
| VIC 161 ◊ | Introduction to Photoshop | 3 |
| | **Subtotal:** | **12** |
| **Semester Two** | | |
| VIC 121 ◊ | Introduction to Adobe InDesign | 3 |
| VIC 162 ◊ | Digital Photography | 3 |
| VIC 172 ◊# | Web Page Design | 3 |
| VIC 204# | Digital Mixed Media I | 3 |
| | **Subtotal:** | **12** |
| **Semester Three** | | |
| VIC 163 ◊ | Digital Studio Photography | 3 |
| VIC 202 ◊# | Advanced InDesign and Typography | 3 |
| VIC 242 ◊# | Advanced Illustrator | 3 |
| VIC 261 ◊# | Advanced Photoshop | 3 |
| | **Subtotal:** | **12** |
| **Semester Four** | | |
| VIC 190# | Introduction to Digital Media and Animation | 3 |
| | OR | |
| VIC 285 ◊ | Digital Video | 3 |
| | | |
| VIC 282 ◊# | Portfolio for Graphic Design | 3 |
| | Program electives | 6 |
| | **Subtotal:** | **12** |
| | **Total Credit Hours:** | **48** |

*See VIC course descriptions* (p. 275).

Program electives (6): ART 117◊, ART 119◊, ART 125◊, MCM 160◊, VIC 104◊, VIC 165, VIC 205, VIC 213◊, VIC 263, VIC 264◊, VIC 272◊, VIC 275, VIC 286◊, VIC 288◊, VIC 296◊

**Coordinator:** Lorette Dodt, Ext. 3519

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/VisualCommunicationGraphicDesignCertificate/50.0401-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Visual Communication—Social Media Design Certificate

(formerly Visual Communication — Digital Media Certificate)

**Curriculum VIC.DGM.CERT (C448U)**

Offers students foundation skills in social media for web, video, and photography, as applied to interactive work. Computer skills are developed through design projects using Adobe Creative suite software and other industry software. The application of digital cameras is covered. Qualified individuals may find entry-level employment in business, and social media agencies. Career paths are expanding in the field of social media with the growth of technology in all fields of employment.

**Typical job titles include: Entry-level: Social Media Specialist.**

| | | |
|---|---|---|
| **Semester One** | | |
| VIC 161 ◊ | Introduction to Photoshop | 3 |
| VIC 162 ◊ | Digital Photography | 3 |
| VIC 172 ◊# | Web Page Design | 3 |
| VIC 285 ◊ | Digital Video | 3 |
| | **Subtotal:** | **12** |
| **Semester Two** | | |
| VIC 163 ◊ | Digital Studio Photography | 3 |
| | | |
| MCM 200 ◊# | News Editing | 3 |
| | OR | |
| VIC 270 ◊# | Writing for Multimedia | 3 |
| | | |
| VIC 275 | Designing for Social Media | 3 |
| VIC 288 ◊ | Video Editing | 4 |
| | **Subtotal:** | **13** |
| | **Total Credit Hours:** | **25** |

*See VIC course descriptions* (p. 275).

**Coordinator:** Lorette Dodt, Ext. 3519

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/VisualCommunicationSocialMediaDesignCertificate/11.0801-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Digital Photography, Associate in Applied Science

**Curriculum VIC.DPH.AAS (C249C)**

Digital Photography offers students an opportunity to acquire specific skills in the creation of photographic images for fine art and commercial use. The associate's degree program provides background in art and design theories, photographic composition, studio portrait and product photography, photographic production and marketing of images for web and media. Computer skills are developed through photographic projects using Adobe Creative Suite and other industry standard software. Qualified individuals may find employment as freelance photographers and in photographic studios.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| VIC 104 ◊ | Computer Art I | 3 |
| VIC 160 ◊ | History of Photography | 3 |
| VIC 161 ◊ | Introduction to Photoshop | 3 |
| VIC 162 ◊ | Digital Photography | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| MCM 150 ◊ | Film History and Appreciation | 3 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| VIC 163 ◊ | Digital Studio Photography | 3 |
| VIC 204# | Digital Mixed Media I | 3 |
| VIC 265# | Photo Production and Lightroom | 3 |
| | **Subtotal: 15** | |

**Semester Three**

| | | |
|---|---|---|
| VIC 261 ◊# | Advanced Photoshop | 3 |
| VIC 263# | Advanced Digital Studio Photography | 3 |
| VIC 264 ◊# | Advanced Digital Photography | 3 |
| VIC 285 ◊ | Digital Video | 3 |
| | General education/Social and Behavioral Sciences | 6 |
| | **Subtotal: 18** | |

**Semester Four**

| | | |
|---|---|---|
| VIC 165# | Photography Exploration | 3 |
| VIC 283# | Portfolio for Photography | 3 |
| | General education/Mathematics and/or Science | 3 |
| | Program electives | 6 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 63** | |

*See VIC course descriptions* (p. 275).

Program electives (6): ART 117◊, ART 119◊, ART 125◊, MCM 160◊, VIC 100◊, VIC 172◊, VIC 190, VIC 205, VIC 275, VIC 286◊, VIC 288◊, VIC 296◊

**Coordinator:** Lorette Dodt, Ext. 3519

# Digital Photography Certificate

**Curriculum VIC.DPH.CERT (C348O, formerly C448O)**

For individuals interested in specializing in digital photography. Digital studio photography and compositional photography, as well as image manipulation techniques and basic video production. Recommended for students wanting to apply digital photography skills to in-house photography positions or freelance photography.

**Semester One**

| | | |
|---|---|---|
| VIC 104 ◊ | Computer Art I | 3 |
| VIC 161 ◊ | Introduction to Photoshop | 3 |
| VIC 162 ◊ | Digital Photography | 3 |
| VIC 163 ◊ | Digital Studio Photography | 3 |
| VIC 285 ◊ | Digital Video | 3 |
| | **Subtotal: 15** | |

**Semester Two**

| | | |
|---|---|---|
| VIC 261 ◊# | Advanced Photoshop | 3 |
| VIC 263# | Advanced Digital Studio Photography | 3 |
| VIC 264 ◊# | Advanced Digital Photography | 3 |
| VIC 265# | Photo Production and Lightroom | 3 |
| | **Subtotal: 12** | |
| | **Total Credit Hours: 27** | |

*See VIC course descriptions* (p. 275).

**Coordinator:** Lorette Dodt, Ext. 3519

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/DigitalPhotographyCertificate/50.0401-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Layout and Design Certificate

**Curriculum VIC.LDS.CERT (C448W)**

Introduction to layout and design of printed materials, including logo development, marketing pieces and newsletters. Basic design, typography and production techniques are covered. Current Creative Suite software for photo manipulation, graphic design and page layout is used in the development of course projects.

Students successfully completing this certificate may find employment as a layout assistant.

| | | |
|---|---|---|
| **Semester One** | | |
| VIC 100 ◊ | Graphic Design | 3 |
| VIC 121 ◊ | Introduction to Adobe InDesign | 3 |
| VIC 142 ◊ | Introduction to Illustrator | 3 |
| VIC 161 ◊ | Introduction to Photoshop | 3 |
| | | **Subtotal: 12** |
| **Semester Two** | | |
| VIC 202 ◊# | Advanced InDesign and Typography | 3 |
| VIC 242 ◊# | Advanced Illustrator | 3 |
| VIC 261 ◊# | Advanced Photoshop | 3 |
| | Program electives | 3 |
| | | **Subtotal: 12** |
| | | **Total Credit Hours: 24** |

*See VIC course descriptions* (p. 275).

Program electives (3): VIC 104◊, VIC 162◊, VIC 163◊, VIC 172◊

**Coordinator:** Lorette Dodt, Ext. 3519

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/LayoutAndDesignCertificate/50.0401-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Selective Admission Health Programs

The Board of Trustees accepts that the fields of Nursing and Allied Health, because of their importance to the welfare of all society, must have selective admission requirements.

Programs identified below have selective admission policies. Specific admission, progression, retention and graduation requirements and/or policies supersede general college policies in the catalog and student handbook.

### Allied Health:

Diagnostic Medical Sonography (DMS)
Nuclear Medicine Technology (NUM)
Ophthalmic Technician (OPH)
Radiologic Technology (RAS)
Surgical Technology (SRT)
Nurse Assistant (NAS)
Sterile Processing Technician (SPT)

### Nursing:

Nursing (NUR)
Licensed Practical Nurse to Associate Degree Nurse Upward Mobility Track

The following programs do not employ selective admission policy and require the same standards as other college programs:

Emergency Management (EMP)
EMS First Responder (EMS)
Eye Care Assistant (EYE)
Fire Science (FIR)

# Selective Requirements for Allied Health and Nursing

### Admission procedure for Allied Health programs:

1. Students are strongly encouraged to attend an information session to learn more about specific programs.
2. Complete the application for general admission online. Applicants will receive a general acceptance letter from Director of Admissions, this is not a letter of acceptance to the Allied Health programs. In addition, to the Triton College application, a student is required to complete an application for each Allied Health program he/she is applying to.
3. Submit official transcript of high school graduation or GED certificate and official transcripts of completed college coursework, if applicable. Students with foreign transcripts must have them evaluated by an independent credentialing agency before submitting them to the college Record's department.

4. Take the college placement exams. The college placement test is mandatory for new students enrolling in credit courses, except when college transcripts show successful completion of Math and English courses. Each program determines their own acceptable placement scores.
5. Complete the New Student Orientation - mandatory for all new students. If online orientation completed, the student must meet with a counselor to register for classes.
6. Meet with a counselor and register for prerequisite classes or other program-required courses. Students may complete program prerequisites and general education requirements before seeking admission into Allied Health programs. Students are expected to seek advising to develop an Academic Plan of coursework for each semester. All Math, Science and Allied Health prerequisite courses require a grade of "C" or better within 5 years of the start of the program.
7. Admission selection is based upon successful completion of prerequisite courses, as well as additional coursework towards the A.A.S. degree or certificate.
8. Selective enrollment programs have implemented rolling admission with applicants being evaluated and considered according to the following deadlines: September 15th, January 15th, March 15th, and June 1st, only if seats remain available for fall admission.
9. Receive acceptance letter from the Admission Committee of the specific program chosen. The Admission Committee of each program establishes criteria for program acceptance. Admission is based on completion of program prerequisites, when required, and ranking on a rating scale. Points are given for grades in completed coursework for prerequisites, general education and support courses. Minimum cumulative Grade Point Averages are established by each program.
10. Attend the program-specific Allied Health orientation and registration session.
11. Submit a completed physician's history and physical form with required documentation of functional physical condition and required immunizations, and proof of active BLS for Healthcare Providers and a valid health insurance to the College Health Services prior to the first clinical course. Continued health insurance coverage and documentation of valid health status is the responsibility of the student and must be maintained throughout the period of enrollment in any Health Career Program. Students are responsible for any incurred medical expenses. Additional requirements may be needed to comply with clinical agency policies.

***Note:*** *Any applicant to the clinical portions of Health Career programs who is afflicted with epilepsy or any other condition that causes loss of consciousness or otherwise may impair his/her ability to perform will furnish the Office of the Dean of Health Careers with a verified statement from a licensed physician to the effect that the applicant's condition does not pose a direct health or safety threat or significant risk to the student, patients, hospital staff or others in the Health Career program or clinical facility. In addition, the applicant will agree to remain under the care of a physician and follow treatment as prescribed. Furthermore, each applicant's physician must report immediately to the College any change in the applicant's ability to function safely in the clinical portion of the program. Any default in this agreement will constitute cause for the removal of the student from the clinical portion of the program.*

### Advanced Placement

The Admission Committee of the specific program, using established program criteria, will evaluate requests for advanced placement on an individual basis.

### Progression and Retention

1. A grade-point average of 2.0 is required for progression in all programs.
2. A "C" grade or better within the last five years is required for progression in **all required** Science, Math and major Health Career courses to count towards graduation requirements.
3. All clinical components or clinical courses must be completed with a minimum grade of "P," "C" or "S," dependent on the grading system used for the program.
4. Students returning to the clinical following a major illness or maternity leave must provide written documentation from their physician stating that they may be involved in all clinical activities with no physical restrictions.
5. Requirements stated in the catalog at the time of admission or readmission to a Health Career program must be met for graduation.
6. Allied Health students are required to earn a grade of "C" or better in all general education courses.

### Readmission

(for students who withdrew, are repeating a course or were terminated prior to program completion)

1. All students seeking readmission should submit a completed "Request for Readmission to a Health Career program" form to the Health Careers Information Specialist no later than 30 days prior to the start of the semester in which they seek readmission. Form may be requested from the Dean of Health Careers and Public Service's Office.
2. All students petitioning for readmission will be evaluated and readmitted depending on the availability of seats or clinical spaces after currently enrolled students have been placed.
3. Any student who has withdrawn ("W") and/or was terminated from any Health Careers course will be subject to individual review of academic performance by the program Admission Committee prior to granting

permission to register for the same course. Specific policies may differ by program.

4. Students seeking readmission into Diagnostic Medical Sonography, Nuclear Medicine Technology, Ophthalmic Technician, Radiologic Technology and Surgical Technology who for any reason have not taken any program specific courses in the two years prior to the readmission date, will be required to retake all previously completed program specific course requirements. A student may only re-enter a Health Career program one time.
5. Students seeking readmission who have progressed in the program must meet the admission requirements for the semester for which they are readmitted. If more than one semester has elapsed since a student has been in a clinical rotation, he/she must demonstrate proficiency prior to readmission. The program reserves the right to assess the student's level of knowledge in order to ensure current competency (including lab, lecture and clinical content).

### Selective Requirements for Nursing

The Nursing program has selective admission policies. Specific admission, progression, retention and graduation requirements and/or policies supersede general college policies in the catalog and student handbook.

### Admission procedure for Associate Degree Nursing Program:

1. Students are strongly encouraged to attend an information session to learn more about the Nursing program.
2. On admission to the college, take the college placement exams. The college placement test is mandatory for all new students enrolling in credit courses, except when college transcripts show successful completion of Math and English courses. Admission is based on acceptable placement scores.
3. Meet with a counselor and register for prerequisite classes or other program-required courses. Students are expected to seek advising to develop an Academic Plan of coursework for each semester. All Math, Science and Allied Health prerequisite courses require a grade of "C" or better within 5 years of the start of the program.
4. Students must complete program prerequisites before seeking admission into the nursing program.
5. Students may take program gen-ed requirements prior to program entry:
   - First year program gen-ed requirements are: EDU 206◊, Anatomy & Physiology II, (BIS 137◊ or BIS 241◊). BIS 136◊ and BIS 137◊ have been developed for health career students. Students may substitute BIS 240◊ and BIS 241◊, but must complete both courses within the same sequence.
   - Students entering program within eight months of high school graduation may enroll in BIS 136◊ or BIS 240◊ concurrent with first semester Nursing courses.
   - Second year program gen-ed requirements: BIS 222◊, SOC 100◊, SPE 101◊, and three credits of Humanities. Students are required to achieve a satisfactory score on a standardized comprehensive Nursing exam prior to graduation with an A.A.S. degree.
6. Complete the application for admission to the Nursing program online.
7. Submit official transcript of high school graduation or GED certificate and official transcripts of completed college coursework, if applicable. Students with foreign transcripts must have them evaluated by an independent credentialing agency before submitting them to the college Record's Department.
8. Nursing is a selective admission program with applicants being evaluated and considered according to the following deadlines, September 15th for the spring and January 15th for fall admission.
9. Receive an acceptance letter from the Nursing Admission Committee. The Nursing Admission Committee has established criteria for program acceptance:
   - Admission is determined by a point system based on GPA for college level program prerequisite courses;
   - a nursing pre-entrance test; and
   - previous academic history.
10. If accepted, attend the Nursing Program new student orientation and registration session.
11. Submit a completed physician's history and physical form with required documentation of functional physical condition and required immunizations, proof of current BLS for Healthcare Providers and valid health insurance to the College Health Services prior to the first clinical course. Continued health insurance coverage and documentation of valid health status is the responsibility of the student and must be maintained throughout the period of enrollment in the Nursing program. Students are responsible for any incurred medical expenses. Additional requirements may be needed to comply with clinical agency policies.

***Note:*** *Any applicant to the clinical portions of Health Career programs who is afflicted with epilepsy or any other condition that causes loss of consciousness or otherwise may impair his/her ability to perform will furnish the Office of the Dean of Health Careers with a verified statement from a licensed physician to the effect that the applicant's condition does not pose a direct health or safety threat or significant risk to the student, patients, hospital staff or others in the Health Career program or clinical facility. In addition, the applicant will agree to remain under the care of a physician and follow treatment as prescribed. Furthermore, each applicant's physician must report immediately to the College any change in the applicant's ability to function safely in the clinical*

*portion of the program. Any default in this agreement will constitute cause for the removal of the student from the clinical portion of the program.*

### Progression and Retention

1. A grade-point average of 2.0 is required for progression in all programs.
2. All Nursing courses must be passed with a grade of "C" or better. All clinical or lab components of clinical courses must be completed with a passing grade of satisfactory.
3. Students returning to the clinical following a major illness or maternity leave must provide written documentation from their physician stating they may be involved in all clinical activities with no physical restrictions.
4. Requirements stated in the catalog at the time of admission or readmission to the Nursing Program must be met for graduation.
5. Students who are unsuccessful in completing the RN standardized comprehensive Nursing Program exit exam may enroll in NUR 190◊, Preparation for the LPN Role. Upon completion they are eligible to apply to sit for the NCLEX-PN.

### Readmission

Preparation for the LPN role:

1. A student may withdraw from a NUR course consistent with the College Calendar withdrawal dates.
2. A written notice of withdrawal is required when the student desires to drop the class. Failure by the student to complete a withdrawal form or to request withdrawal in writing may result in an "F" grade for the course.
3. Students admitted to the ADN program are allowed to repeat only one course in each of the 100- and 200-levels of the nursing program following withdrawal or earning a failing course grade ("D" or "F"). At the point the student withdraws from a course, if they are passing the course with a "C" / 78% or higher it will not be considered as a course failure and may be repeated without penalty Withdrawal from a nursing course with a grade below "C" will be considered a course failure. Withdrawals from a nursing course are limited to one (1) per course without penalty. All withdrawals must be completed according to the withdrawal dates designated by the college. After this withdrawal date you will receive the grade earned at the end of the course.
4. Students achieving a D, F or W in any nursing course and who are seeking readmission will submit a Request for Readmission form to the AD Nursing Office 30 days prior to the semester for which readmission is sought. The form is available in H-202. The student will specifically delineate the activities he/she will undertake to increase likelihood for success upon readmission into the program. The student will develop a remediation plan in collaboration with the nursing department prior to being considered for readmission. The remediation plan may include completion of NUR 105◊.
5. Students seeking readmission into the first semester may be considered pending availability of seats.
6. Readmission to 2nd, 3rd, and 4th semester NUR courses will be permitted based on availability of seats only after continuing students have registered.
7. Students seeking readmission, must meet all program and course pre-requisites, and will be considered for available seats according to performance in previous NUR courses and the remediation plan submitted to Admissions Committee. Readmission students must demonstrate current proficiency of skills completed in prior NUR courses before enrolling in the course to be repeated, except NUR 130◊.
8. The student must complete the program of learning within 5 years of initial admission into NUR 130◊ or within 4 years of initial admission into NUR 185◊.

### LPN Exit Option

Following completion of the first year of the Nursing program, students may enroll in NUR 190◊, Preparation for the LPN Role. Students completing NUR 190◊ are granted a certificate in Practical Nursing and are eligible to apply to sit for the NCLEX-PN.

Students are required to achieve a satisfactory score on a standardized comprehensive exam prior to graduation with a Practical Nursing Certificate.

### LPN to Associate Degree Upward Mobility Track

LPNs may be admitted as advanced placement students following presentation of:

1. Illinois PN license;
2. completion of program prerequisites and first year gen-ed requirements; and
3. presentation of evidence of completed State of Illinois approved pharmacology course or equivalent.

Admitted LPNs are required to complete NUR 185◊ (Summer Bridge Program) prior to enrolling in second-year Nursing courses.

All applicants for initial licensure as a registered nurse or licensed practical nurse are required to submit a criminal background check, provide evidence of finger print process and report conviction of any criminal offenses as part of the application process.

# Diagnostic Medical Sonography

# Diagnostic Medical Sonography, Associate in Applied Science

**Curriculum DMS.DMS.AAS (C217E)**

The Diagnostic Medical Sonography program provides patient services using diagnostic ultrasound under the supervision of a physician who is responsible for the use and interpretation of ultrasound procedures. The Sonographer assists in gathering data necessary to help reach a diagnostic decision.

Diagnostic Medical Sonography (ultrasound) is a fast-growing medical specialty in the imaging field. Graduates are employed in medical centers and hospitals. The program provides students with theory, lab and clinical instruction in general Diagnostic Medical Sonography. They are also introduced to peripheral vascular imaging.

Accredited by the Commission on Accreditation of Allied Health Education programs, 1361 Park St., Clearwater, FL 33756, in cooperation with the Joint Review Commission of Education in Diagnostic Medical Sonography (JRCDMS), 6021 University Boulevard, Suite 500, Ellicott City, MD 21043, (443) 973-3251, phone, (866) 738-3444, fax, www.jrcdms.org, website.

**Program prerequisites: (GEN.DMS.AGS)**

- Must read and write at college level; can be demonstrated by course equivalency, or by meeting all current Reading and Writing requirements for completion of RHT 101◊;
- PHY 100◊ (General Physics), or DMS 100◊ (Introduction to Imaging Physics);
- MAT 085 (Algebra & Geometry I) or must meet current college Math requirement for completion of MAT 085;
- BIS 240◊ (Human Anatomy & Physiology I);
- AHL 120◊ (Comprehensive Medical Terminology);
- completion of the Allied Health, Math and Science prerequisites must not be more than 5 years old;
- all prerequisite coursework must be completed with a grade of "C" or better; and
- all test scores must be within the past two years.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| DMS 101 ◊# | Ultrasound Physics I | 3 |
| DMS 106 ◊# | Introduction to Ultrasound Principles & Procedures | 3 |
| DMS 121 ◊# | Cross Sectional Anatomy | 5 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |

**Subtotal: 18**

**Semester Two**

| | | |
|---|---|---|
| DMS 102 ◊# | Ultrasound Physics II | 3 |
| DMS 110# | General Sonography and Applications | 7 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| MAT 110 ◊# | College Algebra | 5 |

**Subtotal: 17**

*BIS 241◊ or MAT 110◊ meets the Mathematics and/or Science general education requirement.*

**Semester Three**

| | | |
|---|---|---|
| DMS 131 ◊# | Clinical Applications I | 1 |
| DMS 135 ◊# | Ultrasound Film Critique | 2 |
| DMS 136 ◊# | Principles & Procedures of Ultrasound Imagery | 2 |

**Subtotal: 5**

**Semester Four**

| | | |
|---|---|---|
| DMS 141 ◊# | Clinical Applications II | 2 |
| DMS 144# | Sonography Seminar | 2 |
| DMS 146 ◊# | Pathology & Diagnostic Sonography | 3 |
| DMS 200 ◊# | Principles of Computerized Sonography | 2 |
| | General education/Social and Behavioral Science | 3 |

**Subtotal: 12**

**Semester Five**

| | | |
|---|---|---|
| DMS 151 ◊# | Clinical Applications III | 2 |
| DMS 201 ◊# | Sonographic Specialties | 4 |
| DMS 210# | Introduction to Peripheral Vascular Sonography | 2 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | General education/Humanities and Fine Arts | 3 |

**Subtotal: 14**

**Total Credit Hours: 66**

*Note: A minimum grade of "C" is required as a prerequisite for each AHL and DMS course. All Science, Math and AHL coursework must be completed within five years of start of the DMS curriculum with a "C" or greater.*

*See DMS course descriptions* (p. 210).

*See Humanities or Fine Arts General Education requirements* (p. 101).

**Coordinator:** Debra Krukowski, Ext. 3780, email: ultrasound@triton.edu

# Diagnostic Medical Sonography Certificate

**Curriculum DMS.DMS.CERT (C317E)**

The Diagnostic Medical Sonographer performs diagnostic ultrasound procedures under the supervision of a physician. The sonographer collects essential patient data to aid in diagnosis. The program covers basic theory and clinical instruction in Sonography, which will provide an avenue for cross-training and multi-competency in allied health. This will make the individual more marketable in many health care agencies that call for multi-competent practitioners. Employment opportunities are excellent in hospitals, medical centers and other health care agencies.

Program prerequisites: The program is only open to those who hold active status with the American Registry of Radiologic Technologists (ARRT) or certification with the Nuclear Medicine Technology Board or with ARRT, Nuclear Medicine Registry examinations. Students must have graduated from an accredited program by the Joint Review Commission on Educational Programs (JRCNMT or JRCERT) in the past five years from admissions or if graduation is longer than five years, they must complete BIS 190◊, Anatomy and Physiology for Allied Health Majors.

| | | |
|---|---|---|
| **Semester One (Fall)** | | |
| DMS 101 ◊# | Ultrasound Physics I | 3 |
| DMS 121 ◊# | Cross Sectional Anatomy | 5 |
| | | **Subtotal: 8** |
| **Semester Two (Spring)** | | |
| DMS 102 ◊# | Ultrasound Physics II | 3 |
| DMS 110# | General Sonography and Applications | 7 |
| DMS 141 ◊# | Clinical Applications II | 2 |
| | | **Subtotal: 12** |
| **Semester Three (Summer)** | | |
| DMS 135 ◊# | Ultrasound Film Critique | 2 |
| DMS 136 ◊# | Principles & Procedures of Ultrasound Imagery | 2 |
| | | **Subtotal: 4** |
| **Semester Four (Fall)** | | |
| DMS 146 ◊# | Pathology & Diagnostic Sonography | 3 |
| DMS 151 ◊# | Clinical Applications III | 2 |
| DMS 200 ◊# | Principles of Computerized Sonography | 2 |
| DMS 201 ◊# | Sonographic Specialties | 4 |
| DMS 210# | Introduction to Peripheral Vascular Sonography | 2 |
| | | **Subtotal: 13** |
| | | **Total Credit Hours: 37** |

***Note:*** *a minimum grade of "C" is required as a prerequisite for each DMS course.*

*See DMS course descriptions* (p. 210).

**Coordinator:** Debra Krukowski, Ext. 3780, email: debrakrukowski@triton.edu

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/DiagnosticMedicalSonographyCertificate/51.0910-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

# Nuclear Medicine Technology

# Nuclear Medicine Technology, Associate in Applied Science

**Curriculum NUM.NUM.AAS (C217B)**

Nuclear Medicine uses small amounts of radioactive materials to diagnose and treat patients. The Nuclear Medicine technologist administers the radiopharmaceutical and images the area or organ of interest to detect the gamma radiation being emitted from the patient. The scanners used for imaging, whether a gamma camera, Single Photon Emission Tomography (SPECT) or a Positron Emission Tomography (PET) detectors are integrated with computers to provide detailed images showing function and anatomy. Some procedures are acquired simultaneously in conjunction with a Computerized Tomography (CT) study to create PET/CT and SPECT/CT images. Graduates of the program are employed as entry-level technologists in variety of settings from hospitals, clinics and medical imaging centers anywhere in the United States.

Triton's two-year associate's degree Nuclear Medicine Technology program is the only one of its kind offered by an Illinois community college.

Accredited by the Joint Review Committee on Educational programs in Nuclear Medicine Technology, 820 W. Danforth Road, #B1, Edmond, OK, 73003; (405) 285-0546. website: www.jrcnmt.org.

Graduates qualify for the Nuclear Medicine Technology Certification Board (NMTCB) and the American Registry of Radiologic Technology (ARRT), Nuclear Medicine Registry examinations.

### Program Prerequisites:

- Must read and write at college level; can be demonstrated by course equivalency, or by meeting all current Reading and Writing requirements for RHT 101◊ placement;
- PHY 100◊ (General Physics);

- MAT 110◊ (College Algebra) or must meet current college Math requirement for completion of MAT 110◊;
- BIS 240◊ (Human Anatomy and Physiology I);
- completion of the Math and Science prerequisites must not be more than five years old;
- all prerequisite coursework must be completed with a grade of "C" or better; and
- all test scores must be within the last two years.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| AHL 120 ◊ | Comprehensive Medical Terminology | 3 |
| CHM 110 ◊# | Fundamentals of Chemistry | 4 |
| NUM 100 ◊# | Science of Nuclear Medicine | 3 |
| NUM 103 ◊# | Radiation Safety and Protection | 2 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 15** | |

*CHM 110◊ meets the Mathematics and/or Science general education requirement.*

**Semester Two**

| | | |
|---|---|---|
| AHL 102 ◊ | Ethics and Law for Allied Health Professionals | 1 |
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| NUM 140 ◊# | Instrumentation in Nuclear Medicine | 5 |
| NUM 155 ◊# | Patient Care in Nuclear Medicine | 2 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 15** | |

**Semester Three**

| | | |
|---|---|---|
| NUM 160 ◊# | Nuclear Medicine Procedures I | 3 |
| NUM 161 ◊# | Applied Nuclear Medicine Technology I | 1 |
| NUM 181 ◊# | Applied Nuclear Medicine Technology II | 1 |
| | **Subtotal: 5** | |

**Semester Four**

| | | |
|---|---|---|
| NUM 260 ◊# | Nuclear Medicine Procedures II | 4 |
| NUM 261 ◊# | Applied Nuclear Medicine Technology III | 2 |
| NUM 262 ◊# | Nuclear Medicine Pharmacy I | 2 |
| NUM 265# | Principles of PET for Nuclear Medicine | 2 |
| | General education/Social and Behavioral Science | 3 |
| | **Subtotal: 13** | |

**Semester Five**

| | | |
|---|---|---|
| NUM 280 ◊# | Nuclear Medicine Procedures III | 4 |
| NUM 281 ◊# | Applied Nuclear Medicine Technology IV | 2 |
| NUM 282 ◊# | Nuclear Medicine Pharmacy II | 2 |
| NUM 285# | Principles of CT for Nuclear Medicine | 1 |
| | General education/Humanities | 3 |
| | **Subtotal: 12** | |
| | **Total Credit Hours: 60** | |

***Note**: All program requirements must be completed with a grade of "C" or better.*

*See NUM course descriptions* (p. 249).

*See Humanities and Social or Behavioral Sciences General Education requirements* (p. 101).

**Coordinator:** Tory Maloy, Ext. 3487; email: torymaloy@triton.edu

# Nursing

## Nursing, Associate in Applied Science

**Curriculum NUR.NUR.AAS (C218A) Nursing, Associate Degree**

Triton's Nursing program provides students with a basic knowledge of nursing theory and practice, humanities, and social and biological sciences. Clinical experiences are provided in a variety of settings. Graduates earn an associate in applied science degree and qualify to sit for the National Council Licensing Examination (NCLEX) for the registered nurse. Candidates for the RN-NCLEX are required by law to meet fingerprinting requirements, submit to a criminal background check and report conviction of any criminal offenses as part of the licensure application process. The program is approved by the Illinois Department of Financial and Professional Regulation, 100 West Randolph, Suite 9-300, Chicago, IL 60601, (312/814-4500). The associate in applied science degree is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta GA 30326 (800/669-1656), website: www.acenursing.org.

Admission is determined by a point system based on a nursing pre-entrance test, Grade Point Average for college level preadmission courses (RHT 101◊, PSY 100◊, and BIS 241◊), and previous college academic history. Candidates are required to meet CPR, health, criminal background check with no findings, alcohol breath testing and drug screening requirements prior to entry into the clinical setting. Students with a positive background check that include any disqualifying conditions, as defined by Federal and State law will not be allowed to enter the program (TITLE 77: PUBLIC HEALTH).

Preference is given to candidates who are permanent residents of Triton College's district. Nursing is a selective admission program with preference for admission given to the most highly qualified individuals for the available seats. Nursing courses have a higher tuition rate and fees.

### Program prerequisites:

- High school graduation or GED;

- attendance at a Nursing Information Session is highly recommended;
- completion of MAT 085 or MAT 170◊ or successful placement scores permitting entrance into MAT 110◊, MAT 111◊, MAT 114◊, MAT 124◊ or MAT 131◊;
- RHT 101◊; and
- completion of a nursing pre-admission test;
- all test scores must be within the last two years;
- completion of the Math and Science prerequisites must not be more than five years old from the first day of the program; and
- all prerequisite coursework must be completed with a grade of "C" or better.

**PREREQUISITE COURSES**:

- Algebra (completion of MAT 085 or MAT 170◊ or successful placement scores permitting entrance into MAT 110◊, MAT 111◊, MAT 114◊, MAT 124◊ or MAT 131◊);
- RHT 101◊;
- Biology* (BIS 101◊);
- Chemistry* (CHM 110◊ or CHM 140◊); and
- Human Anatomy and Physiology I (BIS 240◊).

All prerequisite coursework must be completed with a grade of "C" or better.

**Pre-Admission Courses for RNs**

| | | |
|---|---|---|
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| PSY 100 ◊ | Introduction to Psychology | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | **Subtotal: 10** | |

*Cumulative Grade Point Average of 2.5 to 4.0 or better is required for all prerequisite and pre-admission courses. (grade of "C" or better)*

**Pre-Admission Courses for LPNs**

| | | |
|---|---|---|
| BIS 222 ◊# | Principles of Microbiology | 4 |
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| BIS 242 ◊# | Introduction to Human Pathophysiology | 3 |
| EDU 206 ◊# | Human Growth and Development | 3 |
| | **Subtotal: 18** | |

**Semester One**

| | | |
|---|---|---|
| AHL 109 | Drug Calculations | 1 |
| BIS 222 ◊# | Principles of Microbiology | 4 |
| EDU 206 ◊# | Human Growth and Development | 3 |
| NUR 106# | Nursing Concepts and Practice | 1 |
| NUR 107# | Introduction to Nursing Roles | 3 |
| NUR 108# | Nursing Roles Clinical | 1 |
| NUR 109# | Physical Assessment | 3 |
| | **Subtotal: 16** | |

**Semester Two**

| | | |
|---|---|---|
| AHL 112# | Pharmacology and Drug Administration | 3 |
| BIS 242 ◊# | Introduction to Human Pathophysiology | 3 |
| NUR 111# | Adult Health Concepts I | 3 |
| NUR 113# | Adult Health Clinical I | 1 |
| NUR 116# | Adult Health Concepts II | 3 |
| NUR 117# | Adult Health Clinical II | 1 |
| | **Subtotal: 14** | |

***STUDENTS WITH AN ILLINOIS LPN LICENSE:*** *Upon successful completion of NUR 185◊ (Transition from Licensed Practical Nurse to the Associate Degree Registered Nurse Student); LPNs will petition to receive credit for AHL 109, AHL 112, NUR 106, NUR 107, NUR 108, NUR 111, NUR 113, NUR 116, NUR 117, NUR 211, NUR 214;* ***TOTAL 19 credits.***

**Semester Three**

| | | |
|---|---|---|
| NUR 207# | Mental Health Concepts | 2 |
| NUR 208# | Mental Health Clinical | 1 |
| NUR 209# | Maternal Child | 2 |
| NUR 211# | Maternal Child Clinical | 1 |
| NUR 213# | Pediatric Health Concepts | 2 |
| NUR 214# | Pediatric Concepts Clinical | 1 |
| RHT 102 ◊# | Freshman Rhetoric & Composition II | 3 |
| SOC 100 ◊ | Introduction to Sociology | 3 |
| NUR 109# | Physical Assessment | 3 |
| | **Subtotal: 15-18** | |

**NOTE: NUR 109 is to be taken by LPNs only.**

**LPNs will receive credit upon successful completion of NUR 185◊.**
**(See 'STUDENT WITH AN ILLINOIS LPN LICENSE NOTE' above)**

**Semester Four**

| | | |
|---|---|---|
| AHL 202 ◊ | Comprehensive Medical Ethics | 3 |
| NUR 215# | Adult Health Concepts III | 4 |
| NUR 216# | Adult Health Clinical III | 1 |
| NUR 217# | Leadership and Role Transition Concepts | 2 |
| NUR 218# | Leadership and Role Transition Concepts Clinical | 1 |
| NUR 219# | Exit Seminar | 1 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | **Subtotal: 15** | |
| | **Total Credit Hours: 60** | |

***Note: All program requirements must be completed with a grade of "C" or better.***

*See NUR course descriptions* (p. 251).

*See Humanities General Education requirements* (p. 101).

*See Special Requirements for Selective Admission Health programs section* (p. 167)*, which apply to the Nursing program*

**Chairperson:** Magdelin Enich, Ext. 3652

### Gainful Employment

The information provided in the link below is available to assist students in making informed choices about their education and career.

http://www.triton.edu/GE_Certificates/NursingPracticalCertificate/51.3901-Gedt.html

For more information about Gainful Employment, visit the Triton College Financial Aid Office, located in the Student Center Building, Room B-160, or send an email to: finaid@triton.edu.

## Nurse Assistant Certificate

**Curriculum NAS.NAS.CERT (C417E)**

Designed to prepare nursing assistants to provide care in various health care settings under the direction of a registered nurse. The program includes development of fundamental nursing skills through lectures, laboratory activities and clinical experience. Students may also complete elective courses to gain knowledge and practical skills in ethical and legal responsibilities, medical terminology, venipuncture, and electrocardiography.

Upon successful completion of the Nurse Assistant program requirements, the graduate receives a certificate and becomes eligible to take the Illinois Nurse Aide Test, which is required for certification by the Illinois Department of Public Health (IDPH). The program is approved by the Illinois Department of Public Health, 525 W. Jefferson St., Springfield, IL 62761, (217) 785-5133.

### Program prerequisites:

- Have a criminal history records check as prescribed by the Health Care Worker Background Check Act with no disqualifying convictions;
- must have valid Social Security card number per the Social Security Administration (www.socialsecurity.gov);
- must be at least 16 years of age;
- must be able to speak and understand English;
- must have completed at least eight years of grade school or provide proof of equivalent knowledge; and
- must read at a college level, as demonstrated by course equivalency or concurrent enrollment in RHT 086 or test at college level Reading.

**Semester One**

| | | |
|---|---|---|
| NAS 100 ◊# | Basic Nurse Assistant | 6 |
| NAS 101 ◊# | Nurse Assistant: Care of Patients With Alzheimer's Disease | 1 |

**Subtotal: 7**

**Total Credit Hours: 7**

**Recommended Electives:**

| | | |
|---|---|---|
| AHL 102 ◊ | Ethics and Law for Allied Health Professionals | 1 |
| AHL 107 ◊ | Intravenous Venipuncture | 1 |
| AHL 108 ◊ | Electrocardiography | 1 |
| AHL 111 | Applied Medical Terminology | 2 |

*See NAS course descriptions* (p. 249)*; AHL course descriptions* (p. 181).

**Coordinator:** Sandra Bowling, Ext. 3767; email: sandrabowling@triton.edu

## Ophthalmic Technician

## Ophthalmic Technician, Associate in Applied Science

**Curriculum OPH.OPH.AAS (C217I)**

Ophthalmic technology is a rapidly expanding field with a growing demand for qualified technicians.

The ophthalmic technician, under the direct supervision of an ophthalmologist, assists in patient care. Ophthalmic technicians perform case histories, visual acuity measurement, visual field testing, refractometry, contact lenses care, and assist in minor ophthalmic surgery.

Accredited by the Commission on Accreditation of Ophthalmic Medical Programs (CoA-OMP), 2025 Woodlane Dr., St. Paul, NY 55125-2998. Employment opportunity in the field are excellent due to an increase in the number of support personnel employed by ophthalmologists and a rising demand for eye-care services.

### Associate in Applied Science Degree

**Semester One**

| | | |
|---|---|---|
| AHL 100 ◊ | Introduction to Patient Care | 2 |
| AHL 101 ◊ | Essentials of Medical Terminology | 1 |
| AHL 109 | Drug Calculations | 1 |
| BIS 101 ◊ | Human Biology | 4 |
| | OR | |
| BIS 136 ◊# | Functional Human Anatomy I | 4 |
| OPH 112 ◊# | Ocular Anatomy & Physiology | 3 |
| OPH 114 ◊# | Ophthalmic Optics | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |

**Subtotal: 17**

*BIS 101◊ or BIS 136◊ meets the Mathematics and/or Science general education requirement.*

**Semester Two**

| | | |
|---|---|---|
| AHL 102 ◊ | Ethics and Law for Allied Health Professionals | 1 |
| HTH 281 ◊ | First Aid & CPR | 2 |
| OPH 113 ◊# | Spectacle Skills | 2 |
| OPH 130 ◊# | Ocular Pharmacology | 3 |
| OPH 140# | Ophthalmic Procedures I | 4 |
| PSY 100 ◊ | Introduction to Psychology | 3 |

**Subtotal: 15**

**Semester Three**

| | | |
|---|---|---|
| OPH 141# | Refractometry | 2 |
| OPH 245# | Clinical Practicum I | 1 |
| | | **Subtotal: 3** |

**Semester Four**

| | | |
|---|---|---|
| OPH 210# | Ophthalmic Procedures II | 4 |
| OPH 231 ◊# | Ophthalmic Seminar I | 1 |
| OPH 232 ◊# | Contact Lenses | 4 |
| OPH 246# | Clinical Practicum II | 2 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | | **Subtotal: 14** |

**Semester Five**

| | | |
|---|---|---|
| OPH 225# | Ocular Disease | 3 |
| OPH 241 ◊# | Ophthalmic Seminar II | 2 |
| OPH 247# | Clinical Practicum III | 2 |
| OPH 251# | Ophthalmic Procedures III | 4 |
| | General education/Humanities | 3 |
| | | **Subtotal: 14** |

**Total Credit Hours: 63**

***Note: Ophthalmic technician courses must be taken according to assigned sequence number.***

*See OPH course descriptions* (p. 256).

*See Humanities General Education requirement* (p. 101).

**Coordinator:** Lisa Maas, Ext. 3934; email: lisamaas@triton.edu

# Radiologic Technology

# Radiologic Technology, Associate in Applied Science

**Curriculum RAS.RAS.AAS (C217C)**

Radiologic technologists operate X-ray equipment to perform diagnostic examinations ordered by a patient's physician.

A two-year program that offers classroom, a digital technology college laboratory and clinical site experiences at various Chicago metropolitan area hospitals.

Employment opportunities exist in hospitals, clinics and medical imaging centers.

Accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606-3182, (312) 704-5300. Graduates qualify for the National Registry Examination given by American Registry of Radiologic Technologists (ARRT) and Illinois licensure.

**Program prerequisites:**

- Must read and write at a college level; can be demonstrated by course equivalency, or by meeting all current reading and writing requirements for RHT 101◊ placement;
- MAT 085 (Algebra and Geometry II) or must meet current college Math requirement for completion of MAT 085;
- *BIS 136◊ (Functional Human Anatomy I) or *BIS 240◊ (Human Anatomy & Physiology I); and
- AHL 120◊ (Comprehensive Medical Terminology);
- completion of Math, Science and AHL prerequisites, must not be more than 5 years old;
- all prerequisite coursework must be completed with a grade of "C" or better; and
- all test scores must be within the last two years.

**Associate in Applied Science Degree**

**Semester One**

| | | |
|---|---|---|
| RAS 100# | Radiology Patient Care | 3 |
| RAS 111 ◊# | Radiographic Anatomy and Positioning I | 2 |
| RAS 114 ◊# | Basic Radiation Protection | 2 |
| RAS 115 ◊# | Imaging Production | 2 |
| RAS 150 ◊# | Applied Radiologic Technology I | 1 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | | **Subtotal: 13** |

**Semester Two**

| | | |
|---|---|---|
| BIS 137 ◊# | Functional Human Anatomy II | 4 |
| | OR | |
| BIS 241 ◊# | Human Anatomy & Physiology II | 4 |
| RAS 117 ◊# | Fundamentals of Radiation | 2 |
| RAS 122 ◊# | Radiographic Anatomy & Positioning II | 2 |
| RAS 124 ◊# | Radiation Instrumentation | 2 |
| RAS 125 ◊# | Radiological Health | 2 |
| RAS 160 ◊# | Applied Radiologic Technology II | 1 |
| | | **Subtotal: 13** |

**Semester Three**

| | | |
|---|---|---|
| AHL 202 ◊ | Comprehensive Medical Ethics | 3 |
| RAS 170 ◊# | Applied Radiologic Technology III | 2 |
| | General education/Social and Behavioral Science | 3 |
| | | **Subtotal: 8** |

**Semester Four**

| | | |
|---|---|---|
| AHL 107 ◊ | Intravenous Venipuncture | 1 |
| RAS 232 ◊# | Radiographic Anatomy & Positioning III | 2 |
| RAS 243 ◊# | Digital Radiography | 3 |
| RAS 260 ◊# | Radiographic Pathology | 2 |
| RAS 280 ◊# | Applied Radiologic Technology IV | 2 |
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| | | **Subtotal: 13** |

**Semester Five**

| | | |
|---|---|---|
| | General education/Humanities | 3 |
| RAS 242 ◊# | Radiographic Anatomy and Positioning IV | 2 |
| RAS 253 ◊# | Special Radiologic Procedures | 2 |
| RAS 278 ◊ | Radiologic Seminar | 3 |
| RAS 290 ◊# | Applied Radiologic Technology V | 3 |
| | **Subtotal: 13** | |
| | **Total Credit Hours: 60** | |

*BIS 136◊ and BIS 137◊ may be substituted by BIS 240◊/BIS 241◊ sequence. Students must complete both courses within the same sequence.*

***Note: All coursework must be completed with a grade of "C" or better.***

*See RAS course descriptions* (p. 265).

*See Humanities, Social or Behavioral Sciences General Education requirements* (p. 101).

*For further information, please access the website listed below.*

**Coordinator:** Pamela Harmon, Ext. 3480;
email: pamelaharmon@triton.edu;
website: http://www.triton.edu/Radiologic-Technology/

## Sterile Processing Technician Certificate

**Curriculum SRT.SPT.CERT (C417G)**

Prepares the student to work in the Sterile Processing Department (also known as the Central Supply or Central Processing Distribution Department). Sterile Processing Technicians (also known as Medical Equipment Preparers or Instrument Technicians) provide support to patient care services within a healthcare facility. Responsibilities include: cleaning, decontaminating, inspecting, assembling, packaging, sterilizing, storing and distributing medical devices needed to provide patient care, especially for patients undergoing surgical procedures.

The program includes theory, lab and experiential learning components. Students receive supervised clinical experience at several cooperating area healthcare facilities.

Employment opportunities exist in healthcare facilities such as hospitals, surgical centers and birth centers. The U.S. Bureau of Labor Statistics projects that the need for Sterile Processing Technicians will increase by approximately 14.5% between now and 2024.

Graduates qualify to apply to the International Association of Healthcare Central Service Materiel Management for eligibility to sit for the Certified Registered Central Service Technician (CRCST) examination.

**Program Prerequisites:**

- High School Diploma or GED;
- must score at the college level or better on the Reading and Writing placement exam or course equivalency;
- placement exam scores must not be more than two years old;
- completion of prerequisite courses must not be more than five years old
- all prerequisite coursework must be completed with a grade of "C" or higher:
- AHL 120◊ (p. 182), Comprehensive Medical Terminology (3 credits);
- BIS 222◊ (p. 190), Principles of Microbiology (4 credits); and
- a criminal history records check with no disqualifying convictions is required prior to start of program.

Sterile Processing Technician courses must be taken in sequence and all program requirements must be completed with a grade of "C" or higher.

Students must complete all health and clinical requirements (includes American Heart Association Basic Life Support for Healthcare Providers certification, drug screening, and any additional information required by clinical site) prior to registration for SPT 140 (p. 274) and the requirements must be maintained through SPT 150 (p. 274).

**Semester One (Fall)**

| | | |
|---|---|---|
| SPT 100# | Sterile Processing Basics | 2 |
| SPT 110# | Introduction to Medical Devices | 2 |
| SPT 120# | Principles of Sterile Processing Practice | 2 |
| SPT 130# | Perioperative Services Lab | 1 |
| | **Subtotal: 7** | |

**Semester Two (Spring)**

| | | |
|---|---|---|
| SPT 140# | Sterile Processing Technician Seminar | 2 |
| SPT 150# | Experiential Learning | 2 |
| | **Subtotal: 4** | |
| | **Total Credit Hours: 11** | |

***Note:*** *all coursework must be completed with a grade of "C" or better.*

*See SPT course descriptions* (p. 273).

**Coordinator:** TBA, Ext. 3921

# Surgical Technology

## Surgical Technology, Associate in Applied Science

**Curriculum SRT.SRT.AAS (C216C)**

Prepares the student to work as part of a team providing surgical patient care. Surgical technologists most often function in the scrub role, but their responsibilities may include a variety of duties before, during and after surgery.

A variety of employment opportunities exist in hospitals, surgical centers, birthing centers and other health care agencies. The U.S. Bureau of Labor Statistics projects that the need for surgical technologists will increase by approximately 30% between now and 2022.

The program includes theory, simulation laboratory and clinical components. Students receive supervised experience at several cooperating area hospitals.

Accredited by the Commission on Accreditation of Allied Health Education programs, 25400 U.S. Highway 19 North, Suite 158, Clearwater, FL 33763, (727) 210-2350, in cooperation with the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting, 6 West Dry Creek Circle, Suite 110, Littleton, CO 80120, (303) 694-9262. Graduates qualify to apply to the National Board of Surgical Technology and Surgical Assisting for eligibility to sit for the Certified Surgical Technologist examination.

**Program Prerequisites:**

- High School Diploma or GED
- Attendance at a Surgical Technology Information Session
- Computer proficiency (word processing, email, internet use) as evidenced by transcripts, employer documentation, student documentation or completion of CIS 100◊
- Must score at the college level or better on the Reading and Writing placement exam or course equivalency.
- Placement exam scores must not be more than two years old.
- Completion of prerequisite courses must not be more than five years old and all prerequisite coursework must be completed with a grade of "C" or higher

| | | |
|---|---|---|
| AHL 120 ◊ | Comprehensive Medical Terminology | 3 |
| BIS 136 ◊# | Functional Human Anatomy I | 4 |
| | OR | |
| BIS 240 ◊# | Human Anatomy & Physiology I | 4 |
| MAT 055# | Algebra & Geometry I | 4 |

A criminal history records check with no disqualifying convictions is required prior to admission to the program

- Surgical technology courses must be taken in sequence and all program requirements must be completed with a grade of "C" or higher
- Students must complete all health and clinical requirements (includes American Heart Association Basic Life Support for Healthcare Providers certification, drug screening, and any additional information required by clinical site) prior to registration for SRT 205 and the requirements must be maintained through SRT 215.
- Surgical Technology is a selective admission program with preference given to the most qualified individuals as determined by a point system based on academic history related to completion of prerequisite courses and previous medical experience

### Associate in Applied Science Degree

**Semester One (Fall)**

| | | |
|---|---|---|
| AHL 202 ◊ | Comprehensive Medical Ethics | 3 |
| SRT 100# | Surgical Technology Basics | 3 |
| SRT 110# | Basic Surgical Skills Theory | 3 |
| SRT 111# | Basic Surgical Skills Lab | 3 |
| RHT 101 ◊# | Freshman Rhetoric & Composition I | 3 |
| | | **Subtotal: 15** |

**Semester Two (Spring)**

| | | |
|---|---|---|
| BIS 222 ◊# | Principles of Microbiology | 4 |
| SRT 120 ◊# | Basic Surgical Procedures | 5 |
| SRT 121# | Advanced Surgical Skills Lab | 3 |
| | | **Subtotal: 12** |

**Semester Three (Summer)**

| | | |
|---|---|---|
| PSY 100 ◊ | Introduction to Psychology | 3 |
| SRT 130 ◊# | Specialty Surgical Procedures | 6 |
| SRT 131# | Surgical Simulation Lab | 3 |
| | | **Subtotal: 12** |

**Semester Four (Fall)**

| | | |
|---|---|---|
| SOC 100 ◊ | Introduction to Sociology | 3 |
| SRT 200# | Professional Development | 6 |
| SRT 205# | Clinical Experience I | 3 |
| | | **Subtotal: 12** |

**Semester Five**

| | | |
|---|---|---|
| SPE 101 ◊# | Principles of Effective Speaking | 3 |
| SRT 210# | Certification Exam Prep | 6 |
| SRT 215# | Clinical Experience II | 3 |
| | | **Subtotal: 12** |
| | | **Total Credit Hours: 63** |

***Note: All coursework must be completed with a grade of "C" or better.***

*See SRT course descriptions* (p. 274).

**Coordinator:** Teri Junge, Ext. 3921

# Course Descriptions

Courses listed in this section are offered in university-transfer and career-education programs. (Continuing education courses are listed in a separate brochure.)Courses are arranged numerically within each discipline.

Within each description, information is arranged in this sequence:

- Course code and numbering:
- 001-099 are college success courses that include content and skills prerequisite to college-level course work.
- 100-299 are courses designed primarily for career preparation that are applicable to AAS (associate in applied science) degree programs and career certificates. (Some courses may transfer to particular four-year colleges or universities and be applicable to specific majors.)
- 100-299◊ symboled courses: See Degree Graduation Requirements (p. 44) for Additional information.
- Number of semester hours of credit
- Course title
- Course description, which includes a general statement of the course objectives as well as materials, procedures and topics to be covered.
- Prerequisite or corequisite courses, if any are required (no mention of prerequisites indicates none is required). Students may petition for waiver of course prerequisites/corequisites if they believe they have comparable experience or completed course work with similar content. Counselors can assist in this process.
- Number of class hours expected for lecture or classroom practice and/or laboratory experience each week.
- Any applicable fee
- Code number of approved Triton College course by Illinois Articulation Initiative (IAI)

## IAI Codes

**IAI Codes for the General Education Core**

C - Communication
M - Mathematics
P, LP* - Physical Science
L, LP - Life Science
H*, HF - Humanities; Humanities/Fine Arts;
F* - Fine Art
S* - Social and Behavioral Science
*Represents a number 1-9

**IAI Code Suffixes for the General Education Core**

D - Diversity
L - Lab
N - Non-Western
R - Research Paper

**IAI Codes for Baccalaureate Majors**

AG - Agriculture
ART - Art
BIO - Biological Sciences
BUS - Business
CHM - Chemistry
CRJ - Criminal Justice
CS - Computer Science
ECE - Early Childhood Education
EGL - English
EGR - Engineering
HST - History
MC - Media and Communication Arts
MTH - Mathematics
PHY - Physics
PLS - Political Science
PSY - Psychology
SOC - Sociology
TA - Theater Arts

Students should check their curricula to determine the recommended semesters for registering for a particular course; some courses may be canceled because of insufficient enrollment or for other reasons, and students will then need to consult with a counselor for adjustments in their - programs.

Counseling services, as detailed in the Student Information section of this catalog, are available to every student. Students who plan to apply Triton College credits toward a degree offered by four-year colleges should consult their counselor for assistance in planning their programs.

# ACC - Accounting

### ACC 100 ◊ - Basic Accounting I

3 credits

The nature of accounting, development and use of accounts, books of original entry, controlling accounts, financial statements, adjusting entries, and accounting for purchase and sale of merchandise.

Lecture: 3

### ACC 101 ◊ - Financial Accounting

4 credits

Foundations for further study of accounting, including principles and concepts of financial accounting; accounting cycle; internal controls; accounts, notes, and other receivables; accounting for merchandising businesses; inventory valuation; perpetual inventory system; accounting for fixed and intangible assets; various depreciation methods; accounting for payroll, contingent, and other current liabilities; organization and corporate accounting for stock and dividend transactions; bonds, long term notes and other long term liabilities; automated accounting software project; and introduction to cash flow statement. (Fall 2016)

Lecture: 4
IAI: BUS 903

### ACC 103 ◊, # - Basic Accounting II

3 credits

Continuation of Basic Accounting covers basic accounting for accounts receivable and bad debts, notes receivable and notes payable, merchandise inventory, plant assets, accruals and deferrals, voucher systems, payroll accounting, partnerships and corporations.

Prerequisite: ACC 100◊
Lecture: 3

### ACC 105 ◊, # - Managerial Accounting

3 credits

Managerial accounting procedures and practices, which provides information that is used by managers for internal decision making. The statement of cash flows, cost behavior analysis and use, job-order costing, process costing cost-volume-profit relationships, contribution approach to costing, budgeting, standard costs, relevant costs of decision making, and capital budgeting.

Prerequisite: ACC 101◊
Lecture: 3
IAI: BUS 904

### ACC 251 ◊, # - Intermediate Accounting I

3 credits

In-depth study of generally accepted and alternative accounting principles and theory underlying financial statements. Emphasis is placed on the asset section of the balance sheet and the effects of asset depreciation, depletion and amortization on the income statement. (Fall 2017)

Prerequisite: ACC 105◊
Lecture: 3

### ACC 252 ◊, # - Intermediate Accounting II

3 credits

In-depth study of generally accepted and alternative accounting principles and theory underlying financial statements. Emphasis is placed on the liability and owner's equity sections of the balance sheet, the income statement, statement of cash flows and includes accounting topics such as dilutive securities, bonds, revenue recognition, accounting for taxes, leases, pensions, accounting changes and errors, disclosure reporting and statement analysis. (Fall 2017)

Prerequisite: ACC 105
Lecture: 3

### ACC 255 ◊, # - Advanced Accounting

3 credits

Advanced accounting includes the study of accounting theory and practice as it relates to business combinations and consolidated financial statements, accounting and reporting for governmental and not for profit organizations and the accounting for equity transactions for partnerships. Recommended for students who plan to sit for the CPA Examination and practicing accountants who are seeking a further study of the above described topics. (Fall 2018)

Prerequisite: ACC 251◊, ACC 252◊
Lecture: 3

### ACC 256 ◊, # - Tax Accounting

3 credits

Students will distinguish between the statutory, administrative, and judicial sources of the tax law and understand the purpose of each source, as they relate to individual income tax procedures. (formerly ACC 156)

Prerequisite: ACC 105
Lecture: 3

### ACC 257 ◊, # - Principles of Auditing

3 credits

Study of auditing theory, principles and accepted procedures including the preparation of working papers, evaluation of internal controls, and audit reports. (Fall 2017)

Prerequisite: ACC 105
Lecture: 3

### ACC 266 ◊, # - Cost Accounting

3 credits

Revenues and costs in a small or large business and how they affect the profitability of the organization. Managers in business use cost accounting information to make decisions about research and development, budgeting, production planning, pricing, and the products or services to offer customers. Cost accounting and how it provides key data to managers for planning and controlling the overall strategic direction for a business. (formerly ACC 166)

Prerequisite: ACC 105
Lecture: 3

**ACC 270 ◊, # - Corporate Tax Accounting**
3 credits
An introduction to corporate, partnership, trust, estate and exempt entity taxation. The overall emphasis of this course is on taxation of corporations and flow through entities. Students will also become familiar with various related subjects such as Alternative Minimum Tax, Accumulated Earnings Tax, Gift and Estate Tax and International Taxation. (Fall 2018)

Prerequisite: ACC 256◊
Lecture: 3

**ACC 271 ◊, # - Research Topics in Taxation**
1 credit
Students will have the opportunity to apply federal income tax laws, as well as other applicable authoritative literature, and developing supportable conclusions to tax issues that do not necessarily contain definitive answers. Includes a variety of tax authoritative documents, as well as their citations. Students will gain experience in using tax research software and will be assessed on their ability to create and communicate defensible tax positions. (Fall 2018)

Prerequisite: ACC 256◊
Lecture: 1

**ACC 275 ◊, # - Financial Accounting Research**
1 credit
Introduction to the research process, as it applies to financial accounting. Primary focus is using internet-based research to obtain authoritative evidence in support of solutions and conclusions regarding accounting-related issues. (Fall 2018)

Prerequisite: ACC 251◊, ACC 252◊
Lecture: 1

**ACC 296 ◊ - Special Topics in Accounting**
0.5 - 3 credits
Topics relating to current trends and techniques in accounting will vary from semester to semester and be available in the current class schedule. Course may be repeated only once when the topics are different.

Lecture: 0 – 3
Laboratory: 0 – 6

## AHL - Allied Health

**AHL 100 ◊ - Introduction to Patient Care**
2 credits
Delivery of health care services, professionalism, communication skills, basic patient-care and assessment skills, infection control, and patient and employee safety in a medical environment. *(course fee required)*

Lecture: 1.5
Laboratory: 1

**AHL 101 ◊ - Essentials of Medical Terminology**
1 credit
Introduction to medical terminology adapted so individuals with little or no previous exposure to the medical field can acquire a basic understanding of medical terms. The key concepts of prefixes, suffixes, and root word formation, as applied to body systems and diagnostic and surgical procedures. Recommended for Ophthalmic Technician, Surgical Technology, and Allied Health majors.

Lecture: 1

**AHL 102 ◊ - Ethics and Law for Allied Health Professionals**
1 credit
Day-to-day legal and ethical considerations arising through work in the allied health professions, orderly conflict resolution in the workplace, exposure to civil liability and problems created by advanced life support technology.

Lecture: 1

**AHL 103 ◊ - Basic Pharmacology for Allied Health Professionals**
1 credit
Basic knowledge essential to administration of medication and care of patients utilizing medications for diagnostic and therapeutic procedures. (formerly Basic Pharmacology for Allied Health)

Lecture: 1

**AHL 107 ◊ - Intravenous Venipuncture**
1 credit
Principles and techniques required to perform routine venipuncture and peripheral intravenous catheter insertion. *(course fee required)*

Lecture: 0.5
Laboratory: 1

**AHL 108 ◊ - Electrocardiography**
1 credit
Electrocardiographic monitoring, systematic rhythm interpretation, common cardiac dysrhythmias, their origin and significance. *(course fee required)*

Lecture: 0.5
Laboratory: 1

**AHL 109 - Drug Calculations**
1 credit
Critical thinking skills and techniques needed to accurately and safely calculate medication dosages.

Lecture: 1

**AHL 110 ◊ - Medical Coding & Office Procedures**
2 credits
Introduction to medical office procedures including practice systems, patient reception, telephone techniques, appointment management, records management and insurance processing. A strong emphasis on CPT coding and ICD-9-CM.

Lecture: 2

### AHL 111 - Applied Medical Terminology
2 credits
Prefixes, suffixes, word roots, combining forms, abbreviations, correct pronunciation, spelling and use of medical terms as they relate to body structure, function, disease, diagnostic, surgical, and therapeutics procedures. Recommended for ESL, Ophthalmic Technician, Surgical Technology, and Allied Health majors. This course meets AHL 101◊ requirements.

Lecture: 1
Laboratory: 2

### AHL 112# - Pharmacology and Drug Administration
3 credit hours
Pharmacotherapeutic agents used in the treatment of illness and the promotion, maintenance and restoration of wellness in diverse individuals across the lifespan. The focus is on concepts of safe administration and monitoring the effects of pharmacotherapeutic agents. (Fall 2018) *(course fee required)*

Prerequisite: NUR 106, NUR 107, NUR 108, NUR 109 or approval of the AHL coordinator.
Lecture: 2.5
Laboratory: 1

### AHL 120 ◊ - Comprehensive Medical Terminology
3 credits
Terminology related to health care settings, including structure, function, pathologies, diagnostic and surgical procedures. Building vocabulary and spelling skills. Recommended for Nuclear Medicine Technology, Diagnostic Medical Sonography, Radiologic Technology, Medical Administrative Assistant, Nursing, and Pre-Profession majors.

Lecture: 3

### AHL 202 ◊ - Comprehensive Medical Ethics
3 credits
The application of ethics to the practice of medical professionals. Morality, ethical dimensions of professional roles, confidentiality, informed consent, chronic and end-of-life care, physician assisted suicide, withdraw of life support, life-sustaining treatments, abortion, cloning, stem cell research, banking cord blood stem cells and human medical experimentation are covered.

Lecture: 3

## ANT - Anthropology

### ANT 101 ◊ - Introduction to Anthropology
3 credits
Introduction to the study of human nature and development and relationship to the physical and social environment today and in the past. Surveys the major subfields of anthropology: cultural anthropology, biological anthropology, archaeology, and linguistic anthropology. (Fall 2015)

Lecture: 3
IAI: S1 900N

### ANT 102 ◊ - Introduction to Biological Anthropology
3 credits
An introduction to human origins, variation and adaptation, primate variation, and the emergence of human culture. *(course fee required)*

Lecture: 3
IAI: S1 902

### ANT 103 ◊ - Cultural Anthropology
3 credits
Learn about the nature of culture, encompassing social organization, technology, economics, religion, and language as seen among contemporary, primitive, and preliterate peoples.

Lecture: 3
IAI: S1 901N

### ANT 105 ◊ - Digging Into Archaeology
3 credits
Survey of archaeological concepts, research, and methods for study of prehistoric cultures. Includes rise and development of modern civilization, current archaeological investigations, interpretations of finds, and introduction to fieldwork techniques.

Lecture: 3
IAI: S1 903

### ANT 150 ◊ - Cultural Contexts
3 credits
Discuss the use of ethnographic readings to study how people live in non-Western societies. Topics include culture and culture change, the life cycle and sex roles, interpersonal relations, economics and politics, and problem solving strategies in a cultural context.

Lecture: 3
IAI: S1 904D

### ANT 275 ◊ - Anthropology of Religion
3 credits
An examination of the various forms of religion and religious practice including orthodox religion, indigenous religious practices, witchcraft and magic, and the role religion plays in all aspects of cultural expression.

Lecture: 3

### ANT 296 ◊ - Special Topics in Anthropology
3 credits
Topics and problems in anthropology through readings, discussion, guided research, and field trips are discussed. Topics vary from semester to semester and must be approved by the Dean of Arts and Sciences.

Lecture: 3

# ARC - Architecture

### ARC 102 - OSHA 10-Hour Construction Training

1 credit

Recognize and prevent hazards on a construction site in accordance with OSHA 10-hour training guidelines. *(course fee required)*

Lecture: 1

### ARC 104 - Introduction to Architecture

3 credits

Introductory study of architecture, architectural education and the profession through the study of theory, history, principles and practice of architecture. Investigation of the roles and responsibilities of the architect, interior designer, engineer, urban planner and landscape architect. *(course fee required)*

Lecture: 1
Laboratory: 4

### ARC 109 ◊, # - Design I

4 credits

A beginning studio course in basic design and drawing introducing the aesthetic principles of form and space and how these principles relate to how a building functions and serves the clients' needs. (formerly Fundamentals of Drafting & Design) (Fall 2017) *(course fee required)*

Prerequisite: ARC 104
Corequisite: ARC 187◊
Lecture: 1
Laboratory: 6

### ARC 110 ◊, # - Materials, Methods and Sustainability I

3 credits

Building materials, methods of construction and sustainability in the architecture profession. Structural systems, material selection, wall sections, energy and water conservation, lifecycle, environmental impact of building location, and Leadership in Energy and Environmental Design (LEED) rating system. (formerly Materials & Methods of Construction) *(course fee required)*

Prerequisite: ARC 189◊ OR
Corequisite: with ARC 189◊
Lecture: 2
Laboratory: 2

### ARC 120 ◊, # - Steel Construction Technology

5 credits

Construction drawings for a small steel-framed industrial building including floor plans, wall sections, elevations, metal pan stairs, reflected ceiling plans, structural steel roof framing plans, shop drawings and spread, pile and caisson foundation drawings. Drawings will all be done on AutoCAD. Basic steel framing and erection as well as metal deck installation skills will be taught. *(course fee required)*

Prerequisite: ARC 110◊ or ARC 189◊
Lecture: 2
Laboratory: 6

### ARC 130 ◊, # - Concrete Construction Technology

5 credits

Design process, structural engineering, specification writing and codes, while preparing an abbreviated set of architectural, structural, and mechanical construction documents for a concrete framed building. Concrete mixing, forming and pouring trade skills are also included. *(course fee required)*

Prerequisite: ARC 110◊
Lecture: 2
Laboratory: 6

### ARC 140 ◊, # - MEP Construction Technology

5 credits

Students complete a partial set of mechanical, electrical, plumbing and fire protection construction documents for a commercial building. Mechanical, electrical, plumbing and fire protection fabrication and installation trade skills will be taught. *(course fee required)*

Prerequisite: ARC 110◊
Lecture: 2
Laboratory: 6

### ARC 171 ◊, # - Design II

4 credits

A beginning studio course in basic design and drawing introducing the aesthetic principles of movement, balance, rhythm, repetition, proportion, scale, and sequence along with sketching and drawing techniques, orthographic projection, axonometric, obliques, perspectives, shades, shadows, and models. (Fall 2017) *(course fee required)*

Prerequisite: ARC 109◊, ARC 187◊ and ARC 189◊
Lecture: 1
Laboratory: 6

### ARC 187 ◊, # - Architectural Drawings & Models

3 credits

Architectural design presentation techniques to produce architectural drawings and models, including 2-dimensional and 3-dimensional drawing techniques, Photoshop and Illustrator. *(course fee required)*

Prerequisite: ARC 189◊ OR
Corequisite: with ARC 189◊
Lecture: 1
Laboratory: 4

### ARC 189 ◊ - AutoCAD & 3D Computer Modeling

3 credits

Computer-Aided Design (CAD) for architects and interior designers using AutoCAD to develop 2D design and construction drawings. 3D computer software will also be used to create rendered perspectives and animations. (formerly

Computer Graphics for Architecture I - AutoCAD) *(course fee required)*

Lecture: 1
Laboratory: 4

**ARC 210 ◊, # - History of Architecture I**
3 credits
A survey of European, Islamic, Asian and American architectural and urban design traditions from prehistoric times to the end of the middle ages. Each period is studied in relation to physical determinants, such as climate, materials, technology, and geography, and historical influences such as economics, religion, politics, society, and culture. (formerly Introduction to the History of Architecture) *(course fee required)*

Prerequisite: RHT 101◊
Lecture: 3

**ARC 214 ◊, # - History of Architecture II**
3 credits
A survey of European, Asian and American architectural and urban design traditions from the Renaissance to the current period. Each period is studied in relation to physical determinants, such as climate, materials, technology, and geography, and historical influences such as economics, religion, politics, society, and culture.

Prerequisite: RHT 101◊
Lecture: 3

**ARC 220# - Materials, Methods & Sustainability II**
3 credits
The study of materials, methods of construction and sustainability will be continued in this course with a focus on sustainable residential construction. Floor plans, foundation plans, wall sections, building sections, site plan, electrical and plumbing drawings, building codes and zoning ordinances will be examined. (formerly ARC 200, Sustainable Building Design)

Prerequisite: ARC 110◊
Lecture: 2
Laboratory: 2

**ARC 260 ◊, # - Architectural Portfolio**
2 credits
Create an architectural portfolio to use when transferring to a college/university or gain a job within the profession. Best practices and computer software, including Adobe InDesign will be demonstrated. Digital presentation techniques such as Portable Document Format (PDF) and on-line portfolios are used. (formerly Computer Graphics for Architecture) (Fall 2016) *(course fee required)*

Prerequisite: ARC 272◊ OR
Corequisite: with ARC 272◊
Lecture: 1
Laboratory: 2

**ARC 261 ◊ - Revit**
4 credits
Introduction to Building Information Modeling (BIM) using Revit software with a focus on the basic architectural tools and drawing setup. (FALL 2015) *(course fee required)*

Lecture: 2
Laboratory: 4

**ARC 263 ◊ - Revit Management**
3 credits
Application of CADD management principles in architectural and interior design firms using Revit software. (formerly BIM Management) *(course fee required)*

Lecture: 1
Laboratory: 4

**ARC 269 ◊ - Surveying**
3 credits
Explore the use of surveying equipment such as tape, level, transit and theodolite to establish benchmarks, give line and grade, layout building sites, run cross sections, do slope staking, run simple transverse, stake a curve and perform a staditransit survey. (formerly COT) *(course fee required)*

Lecture: 1
Laboratory: 4

**ARC 272 ◊, # - Design III**
5 credits
A studio course in architectural design using aesthetic, environmental and urban design principles to produce architectural designs of buildings and elements of buildings by means of drawings and models. (formerly ARC 172, Architectural Design II) (Fall 2017) *(course fee required)*

Prerequisite: ARC 171◊
Lecture: 2
Laboratory: 6

**ARC 280 ◊, # - Materials, Methods & Sustainability III**
3 credits
The study of materials, methods of construction and sustainability will be continued in this course with a focus on commercial construction. Principles and best practices of Building Information Modeling (BIM) for production of bidding and construction documents for architectural and interior design projects using Revit software. (formerly ARC 262, Revit & Construction Documents) *(course fee required)*

Prerequisite: ARC 220, ARC 261◊
Lecture: 2
Laboratory: 2

**ARC 292 ◊ - Site Design and Construction**
3 credits
All aspects of site design and construction are presented, including ownership rights, zoning, easements and encroachments, topography, bodies of water, surveying, soil sampling and analysis, soil contamination, excavation, stabilization, compaction, retaining

walls, dewatering, grading cut and fill, stormwater management, wetlands regulations, structures, utilities, roads and walks, and safety concerns. (formerly COT 291)

Lecture: 3

**ARC 296 ◊ - Special Topics in Architecture**
0.5 - 3 credits
Selected topics in the areas of contemporary architecture. Topics will vary from semester to semester and information will be available during registration. Course may be repeated up to three times when content is different, but only six credit hours can be used to meet graduation requirements. (formerly Special Topics in Architecture and Interior Design)(Fall 2016) *(course fee may apply depending on topic)*

Lecture: 0.5 – 3
Laboratory: 0 – 6

# ART - Art

**ART 110 ◊ - Looking at Art**
3 credits
A survey of the visual arts (painting, drawing, printmaking, sculpture and architecture as they transmit cultural traditions and humanistic and aesthetic values. Examines historical, social and technological factors that contribute to understanding the function and meaning of works of art.

Lecture: 3
IAI: F2 900

**ART 111 ◊ - Ancient to Medieval Art**
3 credits
The historical development of the visual arts (painting, drawing, printmaking, sculpture and architecture) in Western society, focusing on major artistic styles and movements. Examines works of art as expressions of the ideas and beliefs of artists within their cultural and social contexts.

Lecture: 3
IAI: F2 901

**ART 112 ◊ - Renaissance to Modern Art**
3 credits
A continuation of ART111◊ that includes a survey of European and American Art from the early Renaissance through the 20th Century.

Lecture: 3
IAI: F2 902

**ART 114 ◊ - Survey of Asian Art**
3 credits
A survey of the visual arts (painting, drawing, printmaking, sculpture and architecture) in Indian, Chinese and Japanese societies. Examines works of art as expressions of the ideas and beliefs of artists within their cultural and social contexts.

Lecture: 3
IAI: F2 903N

**ART 116 ◊ - Color Composition**
2 credits
A study of the physics, physiology, psychology and esthetics of color and its applications. *(course fee required)*

Lecture: 1
Laboratory: 2

**ART 117 ◊ - Drawing I**
3 credits
An introduction to the fundamental concepts and techniques of drawing using a variety of black and white media. Drawing from observation and invention leading to an interpretive and evaluative approach to drawing. Descriptive drawing techniques from geometric and organic objects, including vocabulary development, critical analysis activities, and reference to contemporary and historic models of drawing. *(course fee required)*

Laboratory: 6
IAI: ART 904

**ART 118 ◊, # - Drawing II**
3 credits
Builds on and refines the experiences of Drawing I, focusing on a variety of color media and emphasizes invention and formal concerns. Explores abstraction, non-objective, and fabricated image making. Vocabulary development, critical analysis activities, and reference to historic models of drawing. *(course fee required)*

Prerequisite: ART 117◊
Laboratory: 6
IAI: ART 905

**ART 119 ◊ - Two-Dimensional Design**
3 credits
Introduction to two-dimensional design with emphasis on the understanding and application of art principles and elements. *(course fee required)*

Laboratory: 6
IAI: ART 907

**ART 120 ◊, # - Three-Dimensional Design**
3 credits
Emphasizes the understanding and application of principles and elements of three-dimensional design. (Fall Only) *(course fee required)*

Prerequisite: ART 119◊
Laboratory: 6
IAI: ART 908

**ART 125 ◊, # - Life Drawing I**
3 credits
Introduction to drawing the figure from observation or through invention to describe the dynamic qualities of the figure through basic drawing elements, methods, and materials. *(course fee required)*

Prerequisite: ART 118
Laboratory: 6

**ART 126 ◊, # - Life Drawing II**
3 credits
Continuation of ART125◊, Life Drawing I, with emphasis on personal exploration of figure drawing as an expressive art. *(course fee required)*

Prerequisite: ART 125◊
Laboratory: 6

**ART 135 ◊, # - Ceramics I**
3 credits
An introductory studio consisting of both hand and wheel methods of construction. Includes an examination of clay, glaze, decoration methods, and firing process. Techniques of ceramics dealing with materials glazing and firing. Course is offered in combination with Art 136◊ which is similar in content and lab. Students will work independently for a portion of each class. *(course fee required)*

Prerequisite: Art Majors: Take ART 117◊ or ART 119◊; Non-Art Majors: no prerequisite
Laboratory: 6

**ART 136 ◊, # - Ceramics II**
3 credits
Emphasizes refining and improving wheel-throwing and hand-building techniques. Clay and glaze materials and glaze calculations also are covered. Course is offered in combination with Art 135◊ which is similar in content and lab. Students will be working independently for a portion of the class. *(course fee required)*

Prerequisite: ART 135◊
Laboratory: 6

**ART 140 ◊, # - Printmaking**
3 credits
Introduction to basic techniques in intaglio, serigraphy and relief printing as fine art and advertising art medium. *(course fee required)*

Prerequisite: ART 117◊ or ART 119◊ or consent of instructor
Laboratory: 6

**ART 141 ◊, # - Painting I**
3 credits
Basic painting techniques and color principles applied to the exploration of oil and/or acrylic painting media. (Summer 2018) *(course fee required)*

Prerequisite: ART 117◊
Laboratory: 6

**ART 142 ◊, # - Painting II**
3 credits
Building aesthetic and technical skills begun in Painting I. Emphasis on investigations of media usage, color development and painting as a medium of communication. Studio safety will be emphasized. (Summer 2018) *(course fee required)*

Prerequisite: ART 141◊
Laboratory: 6

**ART 210 ◊ - Afro-American Art**
3 credits
A study of the historical, philosophical and theoretical foundations of Afro-American Art. A critical study of present day works of Nelson Stevens.

Lecture: 3

**ART 296 ◊ - Special Topics in Art History**
1 - 3 credits
A course designed to present topics and problems in Art History through readings, discussion, guided research, and field trips. Problems and topics vary from semester to semester; however, topics will be international in scope and must be approved by the Dena of University Transfer Services.

Lecture: 1 - 3

# AST - Astronomy

**AST 100 ◊ - Introduction to Astronomy**
4 credits
Introductory general astronomy course for non-science majors, which includes planetary motion, origin of the solar system, a study of the planets and their moons, the sun, the nature of stars and their evolution, galaxies, and the origin of the universe. Students with prior credit in AST 101◊ or AST 102◊ will not receive credit for AST 100◊. (Summer 2016) *(course fee required)*

Lecture: 3
Laboratory: 2
IAI: P1 906L

**AST 101 ◊ - Astronomy of the Solar System**
4 credits
Survey of the universe, structure and motions of the earth and moon, planetary motions, physical nature of the planets, comets and meteors, and origin and evolution of the solar system is presented. *(course fee required)*

Lecture: 3
Laboratory: 2
IAI: P1 906L

**AST 102 ◊ - Astronomy of the Stars and Beyond**
4 credits
Star distances, motions dimensions, structure, origin and evolution; atoms and radiation; structure of galaxies (the Milky Way) and the universe. (Fall 2015) *(course fee required)*

Lecture: 3
Laboratory: 2
IAI: P1 906L

# AUT - Automotive Technology

### AUT 112 ◊ - Introduction to Automotive Technology
3 credits
Provides automotive technology that includes theory and related hands-on experience on live automobiles as a foundation for the advanced automotive courses. Instruction includes engine testing and diagnosis, lubricating and cooling system diagnosis and service. Required for the course: Approximately $500.00 of general automotive tools and a 10 Mega-ohm impedance Digital Volt Ohm Meter (DVOM), are required for successful completion of the program. (Fall 2016) *(course fee required)*

Lecture: 1
Laboratory: 4

### AUT 114 ◊, # - Fuel Management Systems
4 credits
Fuel system, from fuel storage reservoir through fuel distribution components including: pumps, filters, fuel injectors, regulators, return systems. Computerized emission control system basics including: Code reading, Oxygen Sensor (O2), Exhaust Gas Recirculation (EGR), Evaporative Emissions (EVAP), catalytic converters and diesel fuel injection basics. (Spring 2017) *(course fee required)*

Prerequisite: AUT 112◊ OR
Corequisite: with AUT 112◊
Lecture: 3
Laboratory: 2

### AUT 127 ◊, # - Automotive Electricity & Electronics I
4 credits
Basic electricity and electronics, batteries, instruments and testing methods, automotive wiring schematics, starting systems, charging systems and solid state ignition systems. (Fall 2016) *(course fee required)*

Prerequisite: AUT 112◊ OR
Corequisite: with AUT 112◊
Lecture: 2
Laboratory: 4

### AUT 129 ◊, # - Automotive Electricity & Electronics II
3 credits
Continuation of AUT 127◊. Advanced diagnostics of starting, charging and ignition systems, including computer operation, On Board Diagnostics (OBD), scan tools, power accessory operation, security, entertainment, lighting and restraint system operation, and diagnosis. Hybrid system operation and safety are introduced. (Fall 2016) *(course fee required)*

Prerequisite: AUT 114◊, AUT 127◊
Lecture: 1
Laboratory: 4

### AUT 136 ◊, # - Brakes Systems
4 credits
Theory and practical applications of disc and drum brakes, including diagnosis and servicing of current Anti-lock Brake System (ABS) and Traction Control System (TCS) systems, as well as diagnosis and servicing of vacuum and hydraulic assist units. (Fall 2016) *(course fee required)*

Prerequisite: AUT 112◊, or registration in certificate program, AUT 127◊
Lecture: 2
Laboratory: 4

### AUT 150 ◊, # - Automotive Power Plants
5 credits
Procedures necessary to diagnose and repair internal automotive engine systems. Laboratory work consists of disassembly and assembly techniques, and the restoring of tolerances. (Fall 2016) *(course fee required)*

Prerequisite: AUT 112◊, AUT 114◊, AUT 127◊
Lecture: 2
Laboratory: 6

### AUT 226 ◊, # - Engine Performance & Diagnosis
5 credits
An advanced course in engine performance and On Board Diagnostics II (OBD) fuel management systems. Special emphasis on proper diagnostic procedures with the use of scans tools, oscilloscopes and exhaust gas analyzers. Diagnosis, repair and service of emission controls, electronic ignition and computerized engine control systems. (Fall 2016) *(course fee required)*

Prerequisite: AUT 112◊, AUT 114◊, AUT 127◊
Lecture: 3
Laboratory: 4

### AUT 230 ◊, # - Computerized Engine Controls
5 credits
Computerized engine controls, including Oxygen sensors (O2) feedback systems, On Board Diagnostics II (OBD II) and hybrid operation. Detailed instruction on the use of electronic test equipment, including scan tools and lab oscilloscopes used in diagnosis of these systems. Electronic Fuel Injection (EFI), Gasoline Direct Injection (GDI), Air/Fuel Sensors, turbochargers and Distributorless Ignition Systems (DIS). *(course fee required)*

Prerequisite: AUT 226◊
Lecture: 3
Laboratory: 4

### AUT 240 ◊, # - Steering, Suspension and Alignment
4 credits
Comprehensive training on suspension and steering system components, wheel balancing and wheel alignment operation and service, tire pressure monitoring systems, electronic suspension systems and electronic stability control. (Fall 2016) *(course fee required)*

Prerequisite: AUT 127◊
Lecture: 2
Laboratory: 4

**AUT 275 ◊, # - Manual Transmissions & Drives**
6 credits
Longitudinal and transverse-mounted manual transmissions along with drive lines, Four-Wheel Drive (4WD) and All-Wheel Drive (AWD) units. All aspects of operation, service, repair, rebuilding and diagnosis of clutches, manual transmissions/transaxles, transfer cases and drivelines. Students work directly with mechanical, electrical and electronic units that are current in the automotive industry. (Fall 2016) *(course fee required)*

Prerequisite: AUT 127◊, AUT 136◊ OR
Corequisite; with AUT 136◊
Lecture: 3
Laboratory: 6

**AUT 277 ◊, # - Advanced Automatic Transmission & Repair**
5 credits
All aspects of operation, servicing repair, rebuilt and diagnosis of longitudinal and transverse-mounted automatic transmissions. Students practice with mechanical, electrical and electronic units than are current in the automotive industry. *(course fee required)*

Prerequisite: AUT 275◊
Lecture: 3
Laboratory: 4

**AUT 280 ◊, # - Automotive Heating & Air Conditioning Fundamentals**
2 credits
Fundamentals of automotive heating and air conditioning, emphasizing the basic air conditioning cycle, servicing, troubleshooting and minor repair of these systems. (Fall 2016) *(course fee required)*

Prerequisite: AUT 127◊
Lecture: 1
Laboratory: 2

**AUT 282 ◊, # - Advanced Automotive Heating & Air Conditioning**
2 credits
Continuation of AUT 280◊, emphasizing the more intricately designed systems, including electronic sensing units, relays and vacuum controls. Laboratory work includes troubleshooting, repairing and servicing of these systems. (Fall 2016) *(course fee required)*

Prerequisite: AUT 280◊
Lecture: 1
Laboratory: 2

**AUT 296 ◊, # - Automotive Internship I**
2 credits
Supervised automotive repair experiences at a selected automotive repair facility. Students participate in various automotive repair and servicing projects that parallel their semesters work at the college. Not all aspects of automotive repair/service may be included in each project.

Prerequisite: admission to the program
Internship: 4

**AUT 297 ◊, # - Automotive Internship II**
2 credits
Supervised automotive repair experiences at a selected automotive repair facility. Students participate in various automotive repair and servicing projects that parallel their semesters work at the college. Not all aspects of automotive repair/service may be included in each project. (Fall 2016)

Prerequisite: admission to the program
Internship: 4

**AUT 298 ◊, # - Automotive Internship III**
1 credit
Supervised automotive repair experiences at a selected automotive repair facility. Students participate in various automotive repair and servicing projects that parallel their semesters work at the college. Not all aspects of automotive repair/service may be included in each project.

Prerequisite: Admission to the program
Internship: 2

## BIS - Biological Sciences

**BIS 100 ◊ - General Biology**
4 credits
Laboratory course emphasizing scientific inquiry through a breadth of selected concepts such as cell and molecular biology, structure and function, genetics and heredity, evolution, and ecology. Biological issues with personal and social implications will be clearly integrated throughout the course. Development of scientific literacy will be a foundation of the course to enable students to make informed decisions. (Summer 2016) *(course fee required)*

Lecture: 2
Laboratory: 4
IAI: L1 900L

**BIS 101 ◊ - Human Biology**
4 credits
Investigates the major principles and concepts of biology as they relate to humans. Basic biological processes, including human heredity, growth, development, health and ecology, emphasizing how these topics relate to the individual and society. *(course fee required)*

Lecture: 2
Laboratory: 4
IAI: L1 904L

**BIS 102 ◊ - Human Heredity and Society**
4 credits
Laboratory course emphasizing scientific inquiry through a breadth of selected concepts focusing on basic genetics principles and contemporary issues in biotechnology including cell and molecular biology, genetics and heredity,

evolution, and biotechnology. Biological issues will be clearly integrated throughout the course emphasizing biotechnology and the personal, ethical, political and social implications of biological advances in the area of genetics. Development of scientific literacy will be a foundation of the course to enable students to make informed decisions. *(course fee required)*

Lecture: 2
Laboratory: 4
IAI: L1 906L

**BIS 105 ◊ - Environmental Biology**
4 credits
Biological basis of environmental science and how humans are a powerful influence on the ecosystem. Biological interrelations between natural resources, energy, pollution and human-population dynamics. May be used to satisfy a lab-science requirement for non-science majors. *(course fee required)*

Lecture: 2
Laboratory: 4
IAI: L1 905L

**BIS 108 ◊ - Biology of Humans**
3 credits
Investigates the major principles and concepts of biology, as they relate to humans. Basic biological processes, including human heredity, growth, development, health and ecology, emphasizing how these topics relate to the individual and society.

Lecture: 3
IAI: L1 904

**BIS 113 ◊ - Introduction to General Biology**
3 credits
Emphasizes scientific inquiry through a breadth of selected concepts such as cell and molecular biology, structure and function, genetics and heredity, evolution, and ecology. Biological issues with personal and social implications will be clearly integrated throughout the course. Development of scientific literacy will be a foundation of the course to enable students to make informed decisions. This course should not be taken in conjunction with BIS 100◊, General Biology.

Lecture: 3
IAI: L1 900

**BIS 114 ◊ - Microbes and Society**
3 credits
Introductory lecture course, which investigates the properties of life including organization, classification, metabolism, heredity, evolution and ecology using microorganisms. Topics included are a survey of microorganisms, as well as the role of microorganisms in food production, health and disease and biotechnology. Students will not be able to receive credit for both BIS 114◊ and BIS 122◊.

Lecture: 3
IAI: L1 903

**BIS 136 ◊, # - Functional Human Anatomy I**
4 credits
For students in Nursing and other Health Careers programs which surveys cells, tissues and the functional anatomy of human organ systems emphasizing basic concepts and their applications and implications for clinical practice. *(course fee required)*

Prerequisite: High school-level biology or BIS 101◊
Lecture: 2
Laboratory: 4

**BIS 137 ◊, # - Functional Human Anatomy II**
4 credits
A continuation of BIS 136◊, which extends the study of functional anatomy of human organ systems by emphasizing the nature of processes at the molecular, cellular and tissue levels. How imbalances in these processes can lead to organ system dysfunction and clinical consequences in the patient will also be emphasized. *(course fee required)*

Prerequisite: BIS 136◊ or equivalent course with a grade of 'C' or better
Lecture: 2
Laboratory: 4

**BIS 150 ◊, # - Principles of Biology I**
4 credits
Introduction to the general principles of life with a focus on the molecular, biochemical, and cellular levels. Investigates molecular genetics and patterns of inheritance. (Summer 2017) *(course fee required)*

Prerequisite: RHT 101◊ OR
Corequisite: with RHT 101◊
Lecture: 2
Laboratory: 4

IAI: L1 910L; BIO 910

**BIS 151 ◊, # - Principles of Biology II**
4 credits
Second semester of an introduction to the basic principles of biology with emphasis on the diversity of living organisms, plant and animal physiology, evolution, ecology and behavior. *(course fee required)*

Prerequisite: BIS 150◊, or AP Biology with a score of 4
Lecture: 2
Laboratory: 4
IAI: L1 910L; BIO 910

**BIS 190 ◊, # - Anatomy & Physiology for Allied Health Majors**
4 credits
This course covers structure and function of human organ systems involved in controlling and maintaining the conditions of life.

Prerequisite: Placement at RHT 096 level
Lecture: 4

**BIS 200 ◊, # - Undergraduate Open Seminar-Biology**
3 credits
Current topics in biology in the context of the total culture are discussed. Participants are required to do an independent research project and present a report on a topic of their choice related to the subject of the seminar. *(course fee required)*

Prerequisite: any college Biology course and placement at RHT 101◊ level
Lecture: 3

**BIS 205 ◊, # - Field Ecology**
4 credits
Overview of the interactions between organisms and the environment, emphasizing regional conservation issues, plant and animal interactions and adaptations, effects of human disturbance on native flora and fauna, biodiversity concepts, and field research techniques. *(course fee required)*

Prerequisite: any college Biology course; MAT 055 (minimum grade C or qualifying score on placement test); placement at RHT 101◊ level
Lecture: 2
Laboratory: 4

**BIS 222 ◊, # - Principles of Microbiology**
4 credits
Major groups of microorganisms with special emphasis on morphology, physiology, pathogenicity and their impact in the natural world. Integration of laboratory practice to identify microorganisms present in an unknown sample. (formerly 122, Introductory Microbiology) *(course fee required)*

Prerequisite: RHT 101◊; and one of the following: BIS 100◊, BIS 101◊, BIS 136◊, BIS 137◊, BIS 150◊, BIS 240◊ or equivalent
Lecture: 2
Laboratory: 4
IAI: P903L

**BIS 234 ◊, # - Human Anatomy and Physiology**
6 credits
This course emphasizes the physiological interrelationships of human systems with clinical implications and applications through a regional anatomical approach. *(course fee required)*

Prerequisite: minimum of High School level biology and chemistry, or college level equivalents; placement at RHT 101◊ level
Lecture: 4
Laboratory: 4

**BIS 240 ◊, # - Human Anatomy & Physiology I**
4 credits
Examines the organization of the human body at the macroscopic and microscopic levels. Human cadavers are used along with a regional anatomical approach to study the location, structure and function of major systems, organs and tissue within the human body. BIS 240◊ and BIS 241◊ meet the anatomy and physiology requirements of university Professional allied health programs. Recommended for students with better-than-average academic ability. *(course fee required)*

Prerequisite: BIS 101◊ or high school AP Biology with a score of 3, and RHT 101◊
Lecture: 2
Laboratory: 4

**BIS 241 ◊, # - Human Anatomy & Physiology II**
4 credits
The cellular and molecular levels of human body organization. Emphasis is placed on the homeostasis control mechanisms and systemic interactions required to maintain health. BIS 240◊ & BIS 241◊ meets the anatomy and physiology requirements of University professional Allied health programs. (Summer 2017) *(course fee required)*

Prerequisite: BIS 240◊
Lecture: 2
Laboratory: 4

**BIS 242 ◊, # - Introduction to Human Pathophysiology**
3 credits
Underlying molecular mechanisms and causes of altered physiological states in the human body are covered. Major concepts emphasized in the course include maintenance of acid-base and body fluid balances, oxygenation, neuro endocrine regulation and control, immune defense mechanisms, cardiovascular mechanisms and aging. Critical-thinking and problem-solving techniques will be used to study the interaction of body systems in the development of various disease states. This course is designed for allied health practitioners and pre-professional students. *(course fee required)*

Prerequisite: BIS 240◊ and BIS 241◊
Lecture: 3

# BOT - Biotechnology

**BOT 110 ◊ - Good Lab Practices/Good Manufacturing Practices in Biotechnology**
1 credit
Current Food and Drug Administration (FDA) Good Laboratory Practices (GLPs) and Good Manufacturing Practices (GMP) guidelines. Emphasizes the management of manufacturing and quality control of drugs and medical devices as well as the regulations in place for conducting non-clinical studies.

Lecture: 1

**BOT 200 ◊, # - Cellular and Molecular Biology**
3 credits
Focus on nucleic acids and proteins and the roles that each of these molecules play in cellular physiology. An emphasis on the molecular mechanisms of deoxyribose nucleic acid (DNA) replication, DNA repair, gene expression, membrane transport, cell communication, cell division, cell culture techniques, stem cells and cancer.

Prerequisite: BIS 150◊; and SAT 170 OR
Corequisite: with SAT 170
Lecture: 3

**BOT 210 ◊, # - Introduction to Biochemistry**
3 credits
Explores the fundamentals of biological chemistry including structures of amino acids, proteins, nucleotides, nucleic acids, lipids, and carbohydrates. Emphasizes the relationship between structure and function. Investigates kinetics and mechanism of enzymatic reactions, central metabolic pathways, and biochemical genetics.

Prerequisite: CHM 132◊ or CHM 234◊
Lecture: 3

**BOT 220 ◊, # - Cell and Tissue Culture**
4 credits
Introduction to animal and plant cell cultures. Hands-on laboratory experience in the standard practices and methodologies for primary and continuous cultures. Aseptic technique, media preparation, cell culture evaluation, as well as maintenance and storage of cell lines. (Summer 2018)

Prerequisite: BOT 200◊
Lecture: 2
Laboratory: 4

**BOT 230 ◊, # - Biotechnology Laboratory I (DNA Techniques)**
4 credits
Biotechnology field, laboratory techniques, applications, and bioethical considerations. Metric system, solutions, spectrophotometry, bacteria culturing, gel electrophoresis, plasmid transformation and purification, polymerase chain reaction, DeoxyriboNucleic Acid (DNA) structure, recombinant techniques, quantitation, sequencing, and microarray. *(course fee required)*

Prerequisite: BIS222, BOT200, CHM110 or CHM140, MAT110 or MAT111
Lecture: 2
Laboratory: 4

**BOT 240 ◊, # - Biotechnology Laboratory II (Protein Techniques & Biofuels)**
4 credits
Expands on the biotechnology field, laboratory techniques, applications, and bioethical considerations. Includes protein structure, protein applications, enzymes, protein quantitation, size exclusion chromatography, protein expression and purification, protein electrophoresis, bioinformatics, immunity and immunological applications, immunodiffusion, enzyme-linked immunosorbent assay (ELISA), western blotting, and biofuels. *(course fee required)*

Prerequisite: BOT 230◊
Lecture: 2
Laboratory: 4

# BUS - Business

**BUS 102 ◊ - Small Business Accounting**
3 credits
Practical approach to small business bookkeeping and introduction to QuickBooks Software. QuickBooks is designed for the small to midsized business owner who enjoys Quicken' s ease of use, but prefers a more traditional approach to accounting. Learn how this well-designed program can make it easy to set up a chart of accounts, reconcile your checking account, create and print invoices, receipts, and statements, track your payables, inventory, and receivables, create estimates, and generate reports. An overview of bookkeeping concepts and theories will also be covered.

Lecture: 3

**BUS 103 ◊ - Keyboarding Technique**
1 credit
Learn proper keyboarding technique for inputting information into a computer. Keyboarding by touch, not sight will be stressed along with proper fingering for letters, numbers and symbols. Recommended for any non-typist who uses a computer. *(course fee required)*

Laboratory: 2

**BUS 104 ◊, # - Keyboarding Speed & Accuracy**
1 credit
Designed for individuals who want to improve their keyboarding speed and accuracy skills for personal use or employment opportunities. Course materials and structure allow for individual progression in increasing keyboarding ability. Course may be repeated in order to attain desired speed and accuracy goal. Only one credit may count for graduation. *(course fee required)*

Prerequisite: BUS 103◊ or knowledge of proper touch-typing technique
Laboratory: 2

**BUS 107 ◊ - Microsoft Office in Business Applications**
3 credits
Introductory course in Microsoft Office utilizing the basic functions of Windows, Internet Browsers, Word, Excel, Access and PowerPoint. (Fall 2016) *(course fee required)*

Lecture: 2
Laboratory: 2

**BUS 116 ◊ - Principles of Insurance**
3 credits
Students will understand basic insurance concepts as applied to the needs of consumers and provide business skills as needed in the insurance industry. This course includes material to allow basic understanding of tax saving strategies, laws governing insurance and regulations as required by the state of Illinois.

Lecture: 3

**BUS 122 ◊, # - Business English**
3 credits
English fundamentals, punctuation, sentence structure, business vocabulary and spelling are emphasized.

Prerequisite: placement into RHT 101◊
Lecture: 3

**BUS 125 ◊ - Formatting/Proofreading Business Documents**
3 credits
Computer and word processing software are used to develop skills in producing business documents, basic formatting of letters, memos, tables, reports, editing, and proofreading to help students succeed in any computer-oriented profession. BUS 103◊ or knowledge of proper touch-typing technique is highly recommended when taking computer courses. *(course fee required)*

Lecture: 1
Laboratory: 4

**BUS 127 ◊ - Principles of Marketing**
3 credits
Explores the fundamentals of the marketing concept including product, place, promotion, and pricing. Topics covered include the impact of market research, technology, globalization, and the role of business and society. Students also will address the role ethics plays in the everyday operations of marketing. (formerly MKT 125)

Lecture: 3

**BUS 128 ◊ - Sales Force Management**
3 credits
A strategic/consultative selling model that emphasizes the need identification approach in offering solutions to today's customer needs is the central focus. The salesperson will assume the role of a consultant in developing long-term solutions to their clients' needs. Also included is effective management of a professional sales force. (formerly MKT 150, Principles of Sales)

Lecture: 3

**BUS 129 ◊ - Personal Finance**
3 credits
The elements of personal financial planning, how to prepare your own financial plan, buying a first home, making a major consumer purchase, supporting a growing family and preparing financially for retirement are covered. Students will develop and implement an integrated, comprehensive plan to meet financial goals and prepare for financial emergencies.

Lecture: 3

**BUS 136 ◊ - Entrepreneurship**
3 credits
Practical and theoretical approach to understanding entrepreneurship, with an emphasis on startup venture focusing on opportunity assessment, feasibility planning, detailed business planning, and securing financing.

Lecture: 3

**BUS 141 ◊ - Introduction to Business**
3 credits
Broad overview of the principles and functions of business, including management, marketing, global business practices, finance, human resource management, accounting, business law, and the social responsibilities of business. (Fall 2016)

Lecture: 3

**BUS 146 ◊ - Business Computations**
3 credits
Basic mathematics as applied to the problems of business are covered. Topics include application of percentage, cash and trade discounts, mark-up, interest calculations, payroll computations and installment buying.

Lecture: 3

**BUS 149 ◊ - Elementary Statistics**
3 credits
Tabular and graphical presentation, measures of central tendency and variability, analysis of times series and linear correlation coefficient covered.

Lecture: 3

**BUS 150 ◊ - Principles of Management**
3 credits
Managerial skills in organizing, planning, directing, staffing, controlling, representing and implementing innovations that measure the performance of the organization and managerial strategies.

Lecture: 3

**BUS 151 ◊ - Small Business Management**
3 credits
Covers the essentials of successful management of a small business, store location, layout organization, merchandise control, buying, pricing, advertising, government regulation and labor relations. Extensive use is made of materials provided by the United State Small Business Administration.

Lecture: 3

**BUS 154 ◊ - Human Relations in Labor & Management**
3 credits
Leadership and human relations techniques are presented on how to interact on a face-to-face basis, understand human needs, motivate and exercise authority in a just and satisfactory manner.

Lecture: 3

**BUS 161 ◊ - Business Law I**
3 credits
Nature and sources of law, resolution of disputes, lawsuits, criminal law, torts, and the multiple facets of contracts. Designed for future business leaders. Current legal issues surrounding challenges to businesses operating in a global environment. (Fall 2016)

Lecture: 3

**BUS 171 ◊ - Introduction to Customer Service**
3 credits
Overview course of customer service introduces the student to what customer service is the skills necessary to achieve it and the rationale for improving it.

Lecture: 3

**BUS 188 ◊ - Business Writing**
3 credits
The importance of business communication in today's workplace is covered to ensure goals and objectives are clearly understood within the organization. Emphasis is placed on preparing clear and concise business messages, reports, and proposals that are used in business and industry. Both written and oral presentations are included. Guides students in developing the communication skills needed to be successful in a global business environment. (Fall 2017)

Lecture: 3

**BUS 200 ◊ - Introduction to Human Resource Management**
3 credits
The human resource functions, as an integral part of top management. Functional areas covered include: selection and recruitment, training and development, compensation and benefits, and employee relations.

Lecture: 3

**BUS 201 ◊, # - Introduction to Commodity Markets**
3 credits
The history of the commodities markets, methods of trade, market structure and profile of market participants. Commodity exchanges and their role in establishing benchmark prices for crude oil, gold, copper, orange juice and other commodities are also covered.

Prerequisite: ACC 101◊, BUS 141◊
Lecture: 3

**BUS 205 ◊, # - Problem Solving for Human Resources**
3 credits
Covers the knowledge and skills to orient and train employees to be more productive. Also discussed are the tasks of management, job management, personnel training and managing human behavior. A review for the Human Resource Certification Institute's Certification Exam will be completed.

Prerequisite: BUS 200◊
Lecture: 3

**BUS 210 ◊, # - Recruitment and Selection**
3 credits
Overview of the recruitment and selection process from the human resources manager and the job applicant perspectives. The focus is on skill building and an understanding of issues including human resources and career management.

Prerequisite: BUS 200◊ OR
Corequisite; with BUS 200◊
Lecture: 3

**BUS 212 ◊, # - Principles of Finance**
3 credits
The student will interpret and analyze the basic concepts in financial management and examine their impact on corporate financing and investment decisions. Financial statements, taxes and cash flows, time value of money, bond and stock pricing, net present value, internal rate of return, cost of capital, and capital investment analysis. (formerly BUS 112)

Prerequisite: ACC 100◊ or ACC 101◊ or BUS 129◊
Lecture: 3

**BUS 220 ◊, # - Training and Development**
3 credits
Overview of the training/management development process from needs assessment to training design to training evaluation. Identification of the role of training in strategic human resource planning will be discussed.

Prerequisite: BUS 200◊ OR
Corequisite: with BUS 200◊
Lecture: 3

**BUS 240 ◊, # - Compensation and Benefits**
3 credits
Focus on elements of total compensation, including salary administration, performance-based management, benefits and employee assistance programs.

Prerequisite: BUS 200◊ OR
Corequisite: with BUS 200◊
Lecture: 3

**BUS 250 ◊, # - Employee and Labor Relations**
3 credits
Basic concepts relevant to laws governing labor relations, including recognition of unions in the negotiation and administration of contracts.

Prerequisite: BUS 200◊ OR
Corequisite: with BUS 200◊
Lecture: 3

**BUS 260 ◊ - Labor Law**
3 credits
Through a study of labor laws, an understanding of the impact of employee rights, training, consumer protection, compensation, benefits, employer and labor relations and health, safety and security will be discussed. Course is designed for

human resource professionals, business owners, and managers.

Lecture: 3

**BUS 262 ◊, # - Business Law II**
3 credits
Interpret and analyze rules and laws that govern commercial relationships; assess and analyze how the rules, regulations, and laws apply to corporations, negotiable instruments, real property, landlord-tenant disputes, trusts, wills, and anti-trust issues. Future business managers will also examine comparative law, which will compare and contrast the laws in different countries. (formerly BUS 162)

Prerequisite: BUS 161◊

Lecture: 3

**BUS 265 ◊, # - Medical Transcription**
2 credits
Develop skills in transcribing and formatting medical reports and correspondence. Appropriate for students wishing to find employment in medical or health-related offices. A keyboarding speed of 35 words per minute on a five-minute timing. BUS 122◊ is recommended prior to taking this course. *(course fee required)*

Prerequisite: AHL 120◊
Lecture: 1
Laboratory: 2

**BUS 267 ◊ - Records Management**
2 credits
Instruction is given in records-management concepts, as well as manual and electronic filing rules and procedures.

Lecture: 2

**BUS 270 ◊, # - Employee Health and Safety**
3 credits
Basic areas of occupational health and safety, history and trends of occupational health and safety and the role of the professional Human Resource manager are discussed. Included is the examination of OSHA requirements, development of compliance programs, record keeping and dealing with OSHA inspections.

Prerequisite: BUS 200◊ OR
Corequisite: with BUS 200◊
Lecture: 3

**BUS 275 ◊ - Principles of Advertising**
3 credits
Advertising involves the understanding of three critical issues to support the marketing communication of the organization. The three critical issues are: the identification of the relevant characteristics of the target audience, the communication of the selling message to that audience via a paid media vehicle, and the creation of the selling message to support and stimulate or reinforce the purchasing decision. (formerly MKT)

Lecture: 3
IAI: MC 912

**BUS 285 ◊, # - Project Management**
3 credits
Introduction to the procedures for planning, organizing and managing resources to bring about the successful completion of specific project goals and objectives. Project management software will be utilized. *(course fee required)*

Prerequisite: BUS 107◊
Lecture: 2
Laboratory: 2

**BUS 289 ◊, # - Consumer Behavior**
3 credits
Designed to link the conceptual foundations of consumer behavior with strategic marketing applications. After initially establishing a basic model of consumer decision making as an organizational framework, the students will relate it to strategic applications in key areas, particularly segmentation, positioning, and communications. The consumer's psychological, economic and socio-cultural actions and reactions are emphasized, as they relate to a better understanding of consumption. Web-based applications of consumer behavior concepts are covered in detail. (formerly MKT)

Prerequisite: BUS 127◊ OR
Corequisite: with BUS 127◊
Lecture: 3

**BUS 290 ◊, # - Cooperative Work Experience**
2 credits
Work experience will integrate classroom theory with on-the-job training. The college will assist the student in securing employment related to the field of study and / or career interests. The college will also provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be used in searching for employment. Under the supervision of the college and the employer, the student participates in job-training experiences. The student will work a total of 240 hours. (Summer 2017)

Prerequisite: completion of 12 college hours (two of these courses, in discipline must be completed); required 2.0 GPA ('C' average); and approval of Cooperative Education Office
Internship: 3

**BUS 291 ◊, # - Cooperative Work Experience**
2 credits
Continuation of the first co/op course, BUS 290◊. Students have the option to continue with their previous place of employment or select a different area of concentration related to their field of study. Work experience must go beyond what was learned in the previous co/op class or consist of an entirely different learning experience. Continuous growth of the individual is emphasized. As with the previous co-op experience, the college will continue to provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be

used in searching for employment. (Summer 2017)

Prerequisite: 1) BUS 290◊ with a C or better; 2) 2.0 Grade Point Average ('C' average); and 3) approval of Cooperative Education Office
Internship: 3

**BUS 293 ◊, # - Global Business**
3 credits
Students will learn to think strategically and apply concepts and tools to the fundamental functions necessary to succeed in a dynamic and highly competitive global marketplace. Students also will be introduced to a higher level of thinking that is used by general managers in operating successful businesses by forming an integrated systems perspective of the organization. Topics include planning and implementing sustainable business practices and discussions include the competitive advantages of going green. (formerly MKT 290, Global Marketing)

Prerequisite: BUS 141◊ and BUS 150◊; BUS 127◊ OR
Corequisite: with BUS 127◊
Lecture: 3

**BUS 296 ◊ - Special Topics in Business**
0.5 - 3 credits
Selected topics in the areas of business are provided. Topics vary from semester to semester and information will be available during registration. Course may be repeated when topics are different for a maximum of six credit hours towards graduation. *(course fee may apply depending on topic)*

Lecture: 0-3
Laboratory: 0-6

# CHM - Chemistry

**CHM 100 ◊ - Chemistry and Society**
4 credits
Designed for non-science majors, meets a general education science requirement. Emphasizes practical aspects of chemistry in everyday life. An overview of chemical reactions, acids and bases, nuclear chemistry, pollution, global warming, energy, polymers, nutrition, medicinal chemistry, and environmental chemistry. *(course fee required)*

Lecture: 3
Laboratory: 2
IAI: P1 903L

**CHM 110 ◊, # - Fundamentals of Chemistry**
4 credits
General chemistry with an introduction to organic and biochemistry. Designed for students who are not prepared to enroll in CHM 140◊. Upon successful completion of CHM 110◊, the chemistry prerequisites for health-career programs are met and is transferable as a science elective. *(course fee required)*

Prerequisite: high school algebra or MAT 055 (Grade of 'C' or better)
Lecture: 2
Laboratory: 4
IAI: P1 902L

**CHM 132 ◊, # - Elementary Organic Chemistry**
5 credits
Organic chemistry, structure, nomenclature, reactions and specific applications of major classes of organic compounds and bioorganic molecules are covered. Laboratory introduces some specialized analytical techniques used in the study of organic compounds. *(course fee required)*

Prerequisite: CHM 110◊ or CHM 140◊; MAT 110◊ or admission to an Allied Health Program; placement at RHT 101◊ level
Lecture: 3
Laboratory: 4

**CHM 140 ◊, # - General Chemistry I**
5 credits
Periodic table of the elements, atomic structure, basic concepts of quantum theory, bonding, stoichiometry of compounds and reactions, thermochemistry, the gaseous state, basic concepts of the liquid and solid states and solutions are covered. *(course fee required)*

Prerequisite: high school chemistry or CHM 110◊; placement at MAT 110◊ level, placement at RHT 101◊ level
Lecture: 3
Laboratory: 4
IAI: P1 902L; CHM 911

**CHM 141 ◊, # - General Chemistry II**
5 credits
A continuation of CHM 140◊. Topics include acid and bases, equilibrium, acid-base equilibria, solubility equilibria, kinetics, thermodynamics, electrochemistry, coordination compounds, nuclear chemistry and descriptive topics in inorganic chemistry. *(course fee required)*

Prerequisite: CHM 140◊; MAT 110◊ or higher (minimum grade C); placement at RHT 101◊ level
Lecture: 3
Laboratory: 4
IAI: CHM 912

**CHM 234 ◊, # - Organic Chemistry I**
5 credits
First of a two-semester course in the chemistry of carbon compounds. A systematic study of the chemistry of organic molecules with emphasis on the structure, nomenclature, synthesis, reactions, reaction mechanisms, and spectroscopic methods of analyses of alkanes, cycloalkanes, alkyl halides, alkenes, alkynes, alcohols, and phenols. Laboratory work is focused on the development of skills and techniques for analysis and synthesis of organic compounds. *(course fee required)*

Prerequisite: CHM 141◊; MAT 110◊ or higher (minimum grade

C); placement at RHT 101◊ level
Lecture: 3
Laboratory: 4
IAI: CHM 913

**CHM 235 ◊, # - Organic Chemistry II**
5 credits
A continuation of the systematic study of the chemistry of carbon compounds by functional groups with emphases on nomenclature, structure, synthesis, reactions, reaction mechanisms, and spectroscopic analysis of ethers, thiols, sulfides, conjugated dienes, aromatic compounds, amines, aldehydes, ketones, carboxylic acids and their derivatives, and dicarbonyl compounds. An introduction to polymers and biochemistry will also be provided. Laboratory work is centered on the continued development of skills and knowledge of techniques with particular emphasis on multi-step synthesis and the spectroscopic analysis of the products. *(course fee required)*

Prerequisite: CHM 234◊; MAT 110◊ or higher (minimum grade C); placement at RHT 101◊ level
Lecture: 3
Laboratory: 4
IAI: CHM 914

# CHN - Chinese

**CHN 101 ◊ - Elementary Chinese I**
4 credits
Beginning Mandarin Chinese course intended for students with no prior knowledge of Chinese. Includes oral and written practice of the basic structure of Chinese Mandarin. Pronunciation and tonal accuracy are strongly stressed. Also covered are the most widely needed Chinese characters, with explanation of cultural and language structures. *(course fee required)*

Lecture: 4

**CHN 102 ◊, # - Elementary Chinese II**
4 credits
A continuation of CHN 101◊ introducing approximately 350 more of the most widely needed Mandarin Chinese characters. Helps students to develop further communicative skills in Chinese by teaching useful sentence structures through discussion of everyday topics. CHN 102◊ emphasizes the training of all four language skills (listening, reading, speaking, and writing) as well as understanding the socio-cultural factors that are important to cross-cultural communication. *(course fee required)*

Prerequisite: CHN 101◊
Lecture: 4

**CHN 103 ◊, # - Intermediate Chinese I**
4 credits
A continuation of CHN 102◊, which focuses on increased proficiency in comprehension, spoken production, reading, writing, and translation skills, understanding Chinese grammar and syntax, as well as the unique cultural patterns of China that can contribute to more effective communication. *(course fee required)*

Prerequisite: CHN 102◊
Lecture: 4

**CHN 104 ◊, # - Intermediate Chinese II**
4 credits
Completes an overview of the important sentence structures of modern standard Chinese. Students develop more sophisticated communication skills in all four areas: listening, speaking, reading, and writing. The emphasis is on the ability to interact orally and in writing. Authentic reading selections are emphasized at this level. Students communicate using more complex language structures and express abstract ideas with reasonable fluency. *(course fee required)*

Prerequisite: CHN 103◊
Lecture: 4

# CIS - Computer Information Systems

**CIS 100 ◊ - Introduction to Computer Systems**
1 credit
An overview of computer-systems topics is presented, demonstrating how computers can be used as a valuable tool in the workplace. Basic concepts of computing with hands-on activities including the Windows operating system and using the World Wide Web. May not be used to substitute for CIS 101◊ or CIS 119◊. (formerly CIS 151) *(course fee required)*

Laboratory: 2

**CIS 101 ◊ - Computer Systems & Business Applications**
3 credits
An overview of computer systems topics including, databases, computer hardware, system protocols, the Internet, software and problem solving using word processing, spreadsheet, database, presentation and Internet access methods. (Spring 2017) *(course fee required)*

Lecture: 2
Laboratory: 2
IAI: BUS 902

**CIS 102# - Professional Information Technology and Computer Science**
3 credits
Introduces current skills, practices and platforms in Information Technology professions, including analysis, problem solving, abstraction and current platform technologies and frameworks in the areas of system architecture, networking and internet technologies, mobile devices, data storage and retrieval, software engineering, and information assurance. Prepares students for advanced study, practice and field work. *(course fee required)*

Prerequisite: CIS 101◊
Lecture: 2
Laboratory: 2

**CIS 103# - Android Platform Application Development I**
3 credits
Introduction to programming, designing and developing applications for the Android platform using Java and the Android Software Development Kit (SDK), including Android phone and tablet applications. *(course fee required)*

Prerequisite: CIS 121◊
Lecture: 2
Laboratory: 2

**CIS 104# - Geographic Information Systems Fundamentals**
3 credits
Introduction to using industry standard Geographic Information Systems (GIS) software to store GIS data, visualize GIS information, query and analyze GIS data. (Fall 2017)

Prerequisite: CIS 102 or equivalent work experience
Lecture: 2
Laboratory: 2

**CIS 105 ◊ - A+ PC Hardware & Software**
3 credits
Basic computer hardware and operating systems, covering skills such as, installing, building, upgrading, repairing, configuring, troubleshooting, optimizing, diagnosing and preventive maintenance, with additional elements of soft skills and security. Course topics parallel CompTIA's A+ objectives. (formerly CIS 201, A+ PC Maintenance & Repair) *(course fee required)*

Lecture: 2
Laboratory: 2

**CIS 106 ◊ - A+ PC Maintenance & Repair**
3 credits
Covers installation, building, repairing, configuration, troubleshooting, optimizing, diagnosing and preventive PC and mobile device maintenance in the context of the field service or enterprise environment. Course topics parallel CompTIA's current A+ objectives. (formerly CIS 205, A+ Advanced PC Maintenance & Repair) *(course fee required)*

Lecture: 2
Laboratory: 2

**CIS 107# - Cloud Systems and Operations**
3 credits
Deployment, management, operations and administration on enterprise cloud platforms, including selecting services, cost control, security, monitoring, networks, and data flow. (Fall 2017) *(course fee required)*

Prerequisite: CIS 102
Lecture: 2
Laboratory: 2

**CIS 110 - Social Networking and Web 2.0**
3 credits
Provides an examination of popular and specialized social networking sites along with new services and applications that are available in the collaborative environment of the Web 2.0. In addition to understanding how each operates including creating accounts, using the services and applications. The course will address identity protection and general security issues, their contribution to professional advancement and opportunities for business.

Lecture: 2
Laboratory: 2

**CIS 111# - ASP.NET Web Application Development**
3 credits
Develop ASP.NET Model View Controller (MVC) applications using .NET Framework tools and technologies including integrating data sources, interface development, application design, and implementing business logic. *(course fee required)*

Prerequisite: CIS 190◊
Lecture: 2
Laboratory: 2

**CIS 119 ◊ - Windows**
1 credit
Instruction in the application of the many features of Microsoft Windows including file and print manager, control panel, internet, mail and news programs, and data transfer between applications. (formerly BUS) *(course fee required)*

Laboratory: 2

**CIS 120# - Introduction to Big Data**
3 credits
General overview of big data concepts and tools including database organization, design, query languages and building datasets. Tools, languages, and methods for processing large datasets. *(course fee required)*

Prerequisite: CIS 102
Lecture: 2
Laboratory: 2

**CIS 121 ◊, # - Introduction to Programming**
3 credits
Introduction to computer-based problem solving and algorithm development. Students receive an introduction to computer programming through the use of flowcharts, pseudocode, structure charts, and program coding and debugging using a block structured high-level programming language. Selection, repetition, and sequence control structures are implemented. Arrays, files and records are introduced. *(course fee required)*

Prerequisite: MAT 085 or placement into MAT 110◊ or higher
Lecture: 2
Laboratory: 2
IAI: CS 911

**CIS 125 ◊, # - Discrete Mathematics for Computing**
4 credits
Presents the mathematics needed in computer programming. Sets, logic, graph theory, trees, counting, subscripts and arrays, recursion, number bases, and Boolean algebra and circuits.

Prerequisite: completion of MAT 085 or placement into MAT 110◊ or higher
Lecture: 4
IAI: CS 915

**CIS 130# - iPhone Operating System (IOS) Application Development I**
3 credits
Introduction to development and programming of applications for Apple devices that use the IOS (iPhone Operating System) platform including iPhone and iPad using the Objective-C and Swift programming languages. *(course fee required)*

Prerequisite: CIS 121◊
Lecture: 2
Laboratory: 2

**CIS 140 ◊ - Microsoft Word I**
3 credits
An introductory course exploring Microsoft Word. Students will learn the fundamental concepts of creating and editing documents in today's business community. *(course fee required)*

Lecture: 2
Laboratory: 2

**CIS 142 ◊ - Microsoft Word II**
3 credits
A continuation in the use and exploration of Microsoft Word. Students will learn advanced techniques in creating and editing documents in today's business community. *(course fee required)*

Lecture: 2
Laboratory: 2

**CIS 144 ◊ - Microsoft PowerPoint**
3 credits
An introduction to Microsoft PowerPoint. Students will learn advanced techniques in creating and editing presentation graphics in today's business community. This class prepares the student for the Microsoft Certification Exam in PowerPoint. *(course fee required)*

Lecture: 2
Laboratory: 2

**CIS 150 ◊, # - Computer Systems Applications**
3 credits
Business applications, data processing methods, and problem solving using advanced features of microcomputer-based electronic spreadsheets, database management, word processing, and presentation graphics software will be presented. Integration of office suite software, sharing of data between applications, and converting office documents for use on the World Wide Web is included. *(course fee required)*

Prerequisite: CIS 101◊ or BUS 107◊
Lecture: 2
Laboratory: 2

**CIS 155 ◊ - Microsoft Excel I**
3 credits
An introductory course into electronic spreadsheets. Students will learn the fundamental concepts of developing an electronic spreadsheet using Microsoft Excel, and its use in today's business community. Basic spreadsheet functions and commands are covered. CIS155 and CIS161 prepare the student for Microsoft Excel Certification Exam. (formerly Introduction to Electronic Spreadsheets)

Lecture: 2
Laboratory: 2

**CIS 157 ◊ - Microsoft Access I**
3 credits
Entering, storing and manipulating (sorting, selecting and displaying) data in a variety of forms using Microsoft Access database management software. (formerly Microcomputer Database Management Software) *(course fee required)*

Lecture: 2
Laboratory: 2

**CIS 158 ◊, # - Introduction to the World Wide Web**
1 credit
An introductory course to the Internet and HTML. Students learn how to use a web browser to navigate, search and explore the Web. Hyper Text Markup Language (HTML) is introduced to create home pages. Other Internet resources are covered. Repeatable up to two times when software is different, but only one credit may apply towards graduation. *(course fee required)*

Prerequisite: CIS 100◊ or CIS 101◊ or CIS 119◊
Lecture: 1

**CIS 161 ◊, # - Microsoft Excel II**
3 credits
Advanced features of Microsoft Excel are explored. These include database, text, graphics, macros and database and financial functions. CIS155 and CIS161 prepare the student for Microsoft Excel Certification Exam. (formerly Advanced Electronic Spreadsheets) *(course fee required)*

Prerequisite: BUS 107◊ or CIS 101◊ or CIS 155◊
Lecture: 2
Laboratory: 2

**CIS 167 ◊, # - Microsoft Access II**
3 credits
Advanced features of Microsoft Access database management software including creating multiple table databases, queries, group break reports, forms with sub

forms and command buttons using Visual Basic for Applications (VBA) code. (formerly Microcomputer Database Management Software) *(course fee required)*

Prerequisite: BUS 107◊ or CIS 101◊ or CIS 157◊
Lecture: 2
Laboratory: 2

**CIS 174 ◊ - Windows Client-Server Systems Administration**
3 credits
Managing Microsoft Windows Client-Server environments including server Installation, server Roles, Active Directory, storage, server performance management, server maintenance, client configuration and interfaces. (Fall 2017)

Lecture: 2
Laboratory: 2

**CIS 176 ◊ - LAN Administration: Windows Server**
3 credits
Provides students with the knowledge and skills necessary to install and configure the Microsoft Windows Network Operating System (NOS) for servers on stand-alone and client computers that are part of a workgroup or client-server domain. Includes installing, managing disks, configuring network protocols, Domain Name Services (DNS), Active Directory services, setting up and managing user accounts and groups, network printers, auditing resources and events, Active Directory, Group Policy, managing data storage, backing up and restoring data, and network system recovery. *(course fee required)*

Lecture: 2
Laboratory: 2

**CIS 177 ◊ - Introduction to Linux**
3 credits
An introduction to the Linux operating system, the text editor, shell-processing concepts and file management. (formerly Introduction to UNIX) *(course fee required)*

Lecture: 2
Laboratory: 2

**CIS 178 ◊, # - Administering Web Servers**
3 credits
Students will learn how to configure and install a web server. Managing web services, resource access, and security will be covered. Optimizing performance, troubleshooting, and security will be introduced. *(course fee required)*

Prerequisite: CIS 174◊ or CIS 177◊
Lecture: 2
Laboratory: 2

**CIS 179 ◊, # - Linux System Administration**
3 credits
A continuing course on the Linux operating system. System administration, peripheral controls, network interfaces, and system monitoring and security are covered. Internet and network management features will be emphasized. (formerly Advanced UNIX) *(course fee required)*

Prerequisite: CIS 177◊
Lecture: 2
Laboratory: 2

**CIS 189 ◊ - Internet Foundations**
3 credits
Overview of Internet technologies including protocols, browsers, markup languages, media, website structure, design, and content management systems. (Fall 2015) *(course fee required)*

Lecture: 2
Laboratory: 2

**CIS 190 ◊, # - Web Site Development**
3 credits
Designed to cover the current material in the Certified Internet Web (CIW) Associate Certification exam that focuses on Web Site Development. Students will create Web Sites using Hypertext Markup Language (HTML), and Extensible HTML. Course focus is on JavaScripting in addition to the CIW material. *(course fee required)*

Prerequisite: CIS 121◊
Lecture: 2
Laboratory: 2

**CIS 192 ◊, # - Server-Side Programming**
3 credits
Server-side programming involves the on-demand creation of browser pages. Browser compatible pages can be accessed using the Internet as well as a local intranet. Applications of server side programming include e-commerce as well as internal data and information sharing and distribution. *(course fee required)*

Prerequisite: CIS 190◊
Lecture: 2
Laboratory: 2

**CIS 195 ◊, # - Programming for Engineers**
3 credits
A course in the use of a structured programming language for solving scientific problems. Topics include structured design, data structures, arrays, files, and functions. Numerical algorithms and concepts are presented in a framework of scientific applications. *(course fee required)*

Prerequisite: MAT 131◊
Lecture: 2
Laboratory: 2
IAI: CS 911

**CIS 196 ◊, # - E-Commerce**
3 credits
Hardware and software components of an E-Commerce web site are discussed. Administrative functions of an E-Commerce site are presented. E-Commerce sites are visited for hands on experience. *(course fee required)*

Prerequisite: CIS 158◊ and CIS 190◊
Lecture: 2
Laboratory: 2

**CIS 200# - Android Application Development II**
3 credits
Intermediate and advanced development techniques for the Android platform using Java and the Android Software Development Kit (SDK) including devices beyond phones and tablets. *(course fee required)*

Prerequisite: CIS 103
Lecture: 2
Laboratory: 2

**CIS 204# - Geographic Information Systems Analysis and Projects**
3 credits
Using industry standard Geographic Information Systems (GIS) software and diverse GIS datasets to perform advanced analysis of geodata and build interactive map projects. (Fall 2017)

Prerequisite: CIS 104
Lecture: 2
Laboratory: 2

**CIS 206# - ASP.NET Cloud and Service Development**
3 credits
Design and develop services that access local and remote data from various data sources including the Microsoft Entity Framework. Developing and deploying services to hybrid environments, including on-premises servers and Windows Azure. *(course fee required)*

Prerequisite: CIS 111
Lecture: 2
Laboratory: 2

**CIS 207# - Cloud Computing Architecture and Projects**
3 credits
Designing highly available, cost-efficient, fault-tolerant, scalable systems on cloud platforms and creating portfolio cloud projects. (Fall 2017)

Prerequisite: CIS 107
Lecture: 2
Laboratory: 2

**CIS 210 ◊, # - Data Communications & Networking Fundamentals**
3 credits
Fundamentals of computer networking, including components of Local Area Networks (LANs), their topologies and operation, such as Ethernet, Wide Area Network (WAN) technologies, network administration and support and general principles of network troubleshooting. Course content equivalent to Cisco certifications, CompTIA Network+, and Microsoft Networking Essentials. Students who successfully complete this class and CIS 212◊ (Internetworking, Routing & Switching) qualify to attempt Cisco Certified Network Associate (CCNA) certification. (Formerly CIS 310) (Fall 2015) *(course fee required)*

Prerequisite: CIS 101◊
Lecture: 2
Laboratory: 2

**CIS 212 ◊, # - Internetworking, Routing and Switching**
3 credits
Evaluate and configure network infrastructure components; hubs, switches, routers, and remote access network devices. Configuring, maintaining, and developing network connectivity solutions utilizing standardized infrastructure devices in a simulated network environment will be discussed and demonstrated. CIS 210◊ and CIS 212◊ prepare the student for Cisco Certified Network Associate (CCNA) Certification Exam. (formerly CIS 312) *(course fee required)*

Prerequisite: CIS 210◊
Lecture: 2
Laboratory: 2

**CIS 214# - Scaling & Connecting Networks**
3 credits
Design, configuration, and scaling of architecture, components, and operations of routers and switches in larger and more complex networks. *(course fee required)*

Prerequisite: CIS 210◊
Lecture: 2
Laboratory: 2

**CIS 215# - Data Science Application Development**
3 credits
Using big data tools, environments and languages to analyze large datasets and develop applications. Graphing, visualization, statistical analysis and application development with large sets of structured and unstructured data.

Prerequisite: CIS 120, CIS 121◊
Lecture: 2
Laboratory: 2

**CIS 220 ◊, # - Introduction to Network Security**
3 credits
Introduction to basic computer systems and network security concepts. Site encryption technologies, Transmission Control Protocol/Internet Protocol (TCP/IP) security, denial of service and other attacks, implementing firewalls, securing network file systems, resources, and user accounts for UNIX/Linux and Windows OS. *(course fee required)*

Prerequisite: CIS 176◊ or CIS 179◊; CIS 210◊
Lecture: 2
Laboratory: 2

### CIS 221# - iPhone Operating System (IOS) Application Development II

3 credits
Intermediate and advanced development and programming of applications for Apple devices that use the iPhone Operating System (IOS) platform including iPhone and iPad using the Objective-C and Swift programming languages.

Prerequisite: CIS 130
Lecture: 2
Laboratory: 2

### CIS 222 ◊, # - Administering Network Infrastructure

3 credits
Network infrastructure administration concepts and methods including installing, configuring and troubleshooting remote access, remote access security, network protocols and monitoring. (Fall 2015) *(course fee required)*

Prerequisite: CIS 176◊ or CIS 179◊; CIS 210◊
Lecture: 2
Laboratory: 2

### CIS 224 ◊, # - Managing a Network Environment

3 credits
Network management concepts and methods will be explored including managing client and server computers, managing storage resources, sharing drives and printers, monitoring server health and security, managing Active Directory services, Transmission Control Protocol/Internet Protocol (TCP/IP) administration, and disaster recovery and prevention. *(course fee required)*

Prerequisite: CIS 176◊ or CIS 179◊
Lecture: 2
Laboratory: 2

### CIS 226 ◊, # - Advanced Network Security

3 credits
Network security design concepts and methods will be explored including designing security, designing authentication for a network, planning a network administrative structure, designing group security, securing file resources, and designing group policy. *(course fee required)*

Prerequisite: CIS 220◊
Lecture: 2
Laboratory: 2

### CIS 227# - Vulnerability Analysis & Ethical Hacking

3 credits
Analyze and practice methods, tools, and techniques that intruders use to exploit systems and cyber defense strategies used to prevent and discover these vulnerabilities. Vulernability assessment, penetration testing, Malware discovery and system hardening are covered. *(course fee required)*

Prerequisite: CIS 210◊, CIS 220◊, CIS 277◊
Lecture: 2
Laboratory: 2

### CIS 228 ◊, # - Administering Directory Services

3 credits
Building, configuring, and administering Active Directory services, managing servers, using group policies to manage users, software distribution, and security. (Fall 2015) *(course fee required)*

Prerequisite: CIS 174◊, CIS 176◊ and CIS 210◊
Lecture: 2
Laboratory: 2

### CIS 229# - Information Assurance Ethics, Management and Policy

3 credits
Study and practice of contemporary cybersecurity management frameworks, principles, models, and standards. International computer and network laws, specific industry compliance laws, auditing, ethical practices and policies are covered.

Prerequisite: CIS 102 and CIS 220◊
Lecture: 2
Laboratory: 2

### CIS 231# - Information Assurance Risk, Continuity and Governance

3 credits
Study and practice of cybersecurity and information assurance risk policy and management, business continuity, disaster recovery, and governance. Risk assessment, data integrity strategies, and security metrics are covered.

Prerequisite: CIS 102, CIS 220◊, CIS 229
Lecture: 2
Laboratory: 2

### CIS 236 ◊ - Introduction to Wireless LAN Administration

3 credits
Instructor-led training designed to provide the information and hands on experience needed to identify, design, and configure small to medium sized wireless multi-protocol networks. CIS 236◊ prepares the student for the Certified Wireless Network Administrator certification exam and is a prerequisite for the Certified Wireless Network Professional (CWNP) and Certified Wireless Network Engineer (CWNE) certifications. CIS 101◊ and CIS 176◊ recommended. *(course fee required)*

Lecture: 2
Laboratory: 2

### CIS 238 ◊, # - Introduction to Computer Forensics

3 credits
How computers and network artifacts can be used as source of evidence, and how to collect and analyze evidence correctly.

Evidentiary, technical, and legal issues related to digital evidence. (Fall 2015) *(course fee required)*

Prerequisite: CIS 176◊ or CIS 179◊; CIS 210◊
Lecture: 2
Laboratory: 2

**CIS 240 ◊, # - Advanced Computer Forensics**
3 credits
How to locate and use evidence in computer hard drives, shared networks, wireless devices, and embedded systems. Discuss Advantages and disadvantages of software and hardware for collecting and analyzing digital evidence. Lab exercises are given for collecting and analyzing digital evidence in common situations. *(course fee required)*

Prerequisite: CIS 238◊
Lecture: 2
Laboratory: 2

**CIS 250 ◊, # - Visual Basic Programming**
3 credits
Beginning level programming using the Visual Basic programming language. The Program Development Cycle will be used to develop structured programs utilizing procedures, arrays records and files. (formerly Visual Basic Programming) *(course fee required)*

Prerequisite: MAT 085
Lecture: 2
Laboratory: 2

**CIS 253 ◊, # - Advanced Visual Basic Programming**
3 credits
An object-oriented, data-driven approach to programming using Microsoft Visual Basic to implement interactive applications for Microsoft Windows. Record set methods and SQL (Structured Query Language) are used for maintaining, sorting and searching databases with multiple tables. (formerly Visual Basic Programming) *(course fee required)*

Prerequisite: CIS 121◊ or CIS 250◊
Lecture: 2
Laboratory: 2

**CIS 255 ◊, # - C++ Programming**
3 credits
A second course in the language constructs of C++. Abstract data types, files, sets, and pointers are used in developing programs. Recursion and dynamic memory concepts are used in assignments involving text processing, lists, stacks, queues, trees and graphs. Searching and sorting techniques are discussed. (formerly Programming in C++) *(course fee required)*

Prerequisite: CIS 121◊ or CIS 195◊
Lecture: 2
Laboratory: 2
IAI: CS 912

**CIS 257 ◊, # - Access Programming**
3 credits
Using the industry standard Visual Basic for Access (VBA) database language, database design, data manipulation, relational data structures and structured programming techniques are presented. Typical business applications are written, executed and debugged. (formerly Database Programming) *(course fee required)*

Prerequisite: CIS 150◊ or CIS 167◊, and CIS 121◊ or CIS 250◊
Lecture: 2
Laboratory: 2

**CIS 260 ◊, # - Cooperative Work Experience**
2 credits
Work experience will integrate classroom theory with on-the-job training. The college will assist the student in securing employment related to the field of study and / or career interests. The college will also provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be used in searching for employment. Under the supervision of the college and the employer, the student participates in job-training experiences. The student will work a total of 240 hours. (Summer 2017) *(course fee required)*

Prerequisite: completion of 12 credit hours two (2) of these courses, in discipline, must be completed; 2.0 Grade Point Average ('C' average); approval of Cooperative Education Office

Internship: 3

**CIS 261# - Cooperative Work Experience**
2 credits
Continuation of the first co/op course, CIS 260◊. Students have the option to continue with their previous place of employment or select a different area of concentration related to their field of study. Work experience must go beyond what was learned in the previous co/op class or consist of an entirely different learning experience. Continuous growth of the individual is emphasized. As with the previous co-op experience, the college will continue to provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be used in searching for employment. (Summer 2017)

Prerequisite: 1) CIS 260◊ with a 'C' grade or better; 2) 2.0 Grade Point Average ('C' average); 3) approval of Cooperative Education Office
Internship: 3

**CIS 262 ◊, # - Oracle DBMS Development**
3 credits
Database design concepts are implemented using Oracle DBMS. Systems development using Oracle DBMS. Oracle Tools are utilized to build applications. *(course fee required)*

Prerequisite: CIS 278◊
Lecture: 2
Laboratory: 2

### CIS 263 ◊, # - Introduction to Object Oriented Programming

3 credits

Introduces object oriented programming. Topics include classes, inheritance, design and patterns, libraries and frameworks. Creation of object oriented applications using Java and Python languages. (Fall 2015) *(course fee required)*

Prerequisite: CIS 121◊ or CIS 195◊
Lecture: 2
Laboratory: 2

### CIS 264 ◊, # - C# Programming

3 credits

C# is a .NET object-oriented language that combines the ease of Visual Basic and power of Java and C++. C# is one of the core languages of the Microsoft .NET framework. Covers the syntax required to build simple console and event-driven Windows programs. (formerly Introduction to C# Programming) *(course fee required)*

Prerequisite: CIS 121◊
Lecture: 2
Laboratory: 2

### CIS 265 ◊, # - Computer Architecture and Assembly Language

4 credits

An introduction to the architecture and assembly language of a microcomputer. Includes learning the internal organization of the microprocessor, the basic assembler instruction set, addressing modes, program development and debugging on the microcomputer. *(course fee required)*

Prerequisite: CIS 125◊
Lecture: 3
Laboratory: 2

### CIS 267 ◊, # - Advanced Access Programming

3 credits

Advanced database programming techniques using Access Visual Basic for Applications (VBA) are presented. Business applications are written using advanced programming constructs and relational database objects. (formerly Advanced Database Programming) *(course fee required)*

Prerequisite: CIS 257◊
Lecture: 2
Laboratory: 2

### CIS 268# - Mobile & Web Backend Service Development

3 credits

Creating backend services and processing platforms to support mobile and web applications. Development of Representational State Transfer (REST) services and Application Programming Interfaces (APIs) for application platforms. (Fall 2015)

Prerequisite: CIS 121◊
Lecture: 2
Laboratory: 2

### CIS 269# - Capstone Project in Mobile & Web Application Development

1 credit

Mentoring through the creation of a capstone mobile or web application including client applications and service layer backend. (Fall 2015)

Prerequisite: CIS 121◊, CIS 220◊, CIS 263◊; and CIS 130 or CIS 103 or CIS 268 or CIS 215 or CIS 111
Lecture: 0.5
Laboratory: 1

### CIS 271# - Capstone Project in Cybersecurity and Information Assurance

1 credit

Mentoring through a cybersecurity and information assurance project. (Fall 2015)

Prerequisite: CIS 220◊, CIS 212◊, CIS 226◊, CIS 277◊
Lecture: 0.5
Laboratory: 1

### CIS 275 ◊, # - Project Management for Small-Business Systems

3 credits

Introduces students to project management tools and techniques for information technology projects with emphasis on small business applications. Topics include project design and interfacing, cost and time management, quality management, risk management, and ethics issues. Case studies are used to practice techniques. *(course fee required)*

Prerequisite: CIS 101◊
Lecture: 3
Laboratory: 1

### CIS 276 ◊, # - Operating Systems Introduction

3 credits

An introduction to operating systems. Topics included are general hardware features, supervisor features, job control language, library utilization.

Prerequisite: CIS 101◊
Lecture: 3

### CIS 277 ◊, # - Command Processing and Scripting

3 credits

In-depth introduction to scripting, including basic data types, control structures, regular expressions, input/output, and textual analysis. (Fall 2017)

Prerequisite: CIS 101◊
Lecture: 2
Laboratory: 2

**CIS 278 ◊, # - Database Management Systems**
3 credits
Data management and database management systems concepts are covered. DBMS application are designed and built using a commercial DBMS package. *(course fee required)*

Prerequisite: CIS 121◊
Lecture: 3

**CIS 280 ◊, # - Business Systems Analysis & Design**
3 credits
An introduction to systems analysis. Topics include the systems life cycle, analytical tools and methods, life and record layouts, and elements of the design phase.

Prerequisite: CIS 121◊
Lecture: 3

**CIS 295 ◊, # - Data Structures With C++**
3 credits
Object-oriented programming using C++ is used to study advanced data structures and abstract data types including linked lists, stacks, queues, hash tables, graphs and trees. Algorithms for sorting and searching will be covered with emphasis on algorithm analysis. *(course fee required)*

Prerequisite: CIS 255◊
Lecture: 2
Laboratory: 2

**CIS 299 ◊ - Special Topics in Computer Information Systems**
0.5 - 3 credits
Computer topics pertaining to emerging software technology will be covered. Content and format of this course are variable. Subject matter will be indicated in the class schedule. Course may be repeated when topics are different, but only three credit hours may be applied toward graduation requirements. *(course fee may be required depending on topic)*

Lecture: 0 – 3
Laboratory: 0 - 6

# CJA - Criminal Justice Admin

**CJA 106 ◊ - Self Defense for the Law Enforcement Professional**
1 - 2 credits
The principles of self-defense will be demonstrated, including practical methods of preventing and ending a physical attack successfully. The legal, moral and civil liabilities of the legal use of force will be covered.

Lecture: 1
Laboratory: 2

**CJA 107 - Stress Manage in Law Enforcement (SMILE)**
3 credits
An interdisciplinary approach to understanding stress including its physiological nature, origins in the workplace, its effects and management. Exercise protocol to improve physical and mental health will be addressed in both a lecture and lab format in preparation of the Peace Officer Wellness Evaluation Report (POWER) test.

Lecture: 2
Laboratory: 2

**CJA 111 ◊ - Introduction to Criminal Justice**
3 credits
History, development, and function of law enforcement, the court system, and correctional practices in the United States, including interrelationships between various components and processes of the criminal justice system.

Lecture: 3
IAI: CRJ 901

**CJA 115 ◊ - Professional Skills: Private Security-Basic & Firearm Training**
3 credits
Designed to certify a student to work as an armed/unarmed security officer within the State of Illinois, and meets the requirement of the Department of Financial and Professional Regulation, Private Detective, Private Alarm, Private Security, and Locksmith Act of 2004. The legal aspects of being armed, firearm safety, defensive handgun shooting, firearms care and maintenance and state mandated live fire qualification will be covered. Attendance at all classes and a valid Illinois FOID (firearms owner's identification card) are mandatory for state certification. *(course fee required)*

Lecture: 3

**CJA 116 ◊ - Current Security Problems**
3 credits
Risk management, physical security and asset protection in a modern society and interprets the relationship between threats, risks and vulnerabilities. Critical issues confronting security management as maintaining information and computer security, exposure to legal liabilities and the development of qualified security personnel are covered.

Lecture: 3

**CJA 117 ◊ - Introduction to Private Security**
3 credits
History and evolution of private security focusing on asset protection as it relates to premise, business and retail loss prevention. Examine the law and legal limits of liability for private security and explore methods of investigation, intelligence and surveillance operations. Employment opportunities, selection and training of security personnel. (Fall 2015)

Lecture: 3

**CJA 118 ◊ - Security Administration**
3 credits
Organization, administration, and management of security and plant protection units. Policy and decision making, personnel and budgeting, programs in business industry and

government, including retailing, transportation and public and private institutions, and security at the operational level, as well as line operations are covered.

Lecture: 3

**CJA 121 ◊ - Introduction to Corrections**
3 credits
Introductory examination of the history, development and evolution of corrections in correlation with the philosophy of punishment and treatment of offenders. Emphasis on state and local practices relating to the operation and administration of secure and non-secure facilities, including establishment of the federal system and current legal issues of Constitutional Law.

Lecture: 3
IAI: CRJ 911

**CJA 125 ◊ - Principles of Probation & Parole**
3 credits
Development, types of service, administrative organization, investigation, and supervisory aspects of probation and parole are covered. Also discussed are the role of the probation/parole officer; pre-sentence investigation; selection, supervision, and release of probationers and parolees; halfway houses, work release programs and parole clinics; reintegration of offenders in society; and future trends.

Lecture: 3

**CJA 127 ◊ - Correctional Counseling**
3 credits
Theoretical counseling perspectives covering a variety of counseling approaches and addresses the assessment, diagnosis, classification and treatment of those individuals referred from the criminal justice system. A strong practitioner orientation to the role of the counselor, and the counseling of victims and offenders of domestic abuse, sexual offenses and special populations.

Lecture: 3

**CJA 131 ◊ - Correctional Procedures**
3 credits
The study of operational policies and procedures commonly used in prisons, jails and detention facilities to ensure the overall purpose of the correctional agency. Exploratory focus on appropriate use of force, administrative segregation and disciplinary hearings. Remedies provided within current Constitutional Law, including mail, internet, telephone and visitation privileges, as well as availability of religious and legal services.

Lecture: 3

**CJA 140 ◊ - Introduction to Forensic Science**
4 credits
Study and application of science to the processes of law as it relates to the collection, examination, evaluation and interpretation of evidence. Includes techniques of crime scene processing, the identification of potential physical evidence, the examination and evaluation of evidence and laboratory procedures. Also cover crime scene investigation, documentation of the crime scene, the collection and preservation of evidence. *(course fee required)*

Lecture: 3
Laboratory: 2

**CJA 148 ◊ - Police/Community Relations**
3 credits
Examination of the role of police as a public servant with emphasis on achieving and maintaining public support. Professional ethics and values, professionalism, and discretion by law enforcement officials, concepts of effective communication within the community at large and the role media plays in public relations.

Lecture: 3

**CJA 161 ◊ - Administration of Justice**
3 credits
The study of the American judicial system, including the analysis of the procedures of the decision-making process from incident to final disposition, the structure, and operational environment of the judiciary in the United States.

Lecture: 3

**CJA 166 ◊ - Criminal Investigation**
3 credits
Procedures, techniques and applications used in the process of investigating public order crimes. The importance of the modus operandi, gaining information from interviews and interrogation, writing of effective investigative reports and preparation to testify in court are covered.

Lecture: 3

**CJA 171 ◊ - Patrol Administration**
3 credits
Role of the patrol officer in the ever-changing world of law enforcement while covering the administrative goals and objectives, organizational management, staffing patterns and the activities established to support the patrol mission. Techniques surrounding current patrol methods; including community policing, community relations and the hazards and violence facing the patrol officer.

Lecture: 3

**CJA 175 - Report Writing for Criminal Justice**
3 credits
Basic skills and techniques commonly used to write factual, effective and creditable reports used in criminal justice. The classification and organization of accurate information, audience identification and the ability to avoid common writing errors are emphasized.

Lecture: 3

**CJA 181 ◊ - Juvenile Delinquency & Law**
3 credits
Historical development of the concepts of delinquency and the juvenile justice system, the extent to which delinquency affects society, and the nature and processes of the adjudication, treatment and punishment of juvenile offenders. Foundational theories of criminal behavior and other factors associated with the juvenile offender, as well as the legal aspects of the juvenile justice system.

Lecture: 3
IAI: CRJ 914

**CJA 201 ◊, # - Criminology**
3 credits
An overview of the study of crime examining the major theories of crime causation, the extent, nature and distribution of crime in America and the societal response to it. An analysis of established social and criminal justice policies in relationship with victims and offenders to prevent, deter or stop criminal behavior are also discussed.

Prerequisite: CJA 111◊ or SOC 100◊
Lecture: 3
IAI: CRJ 912

**CJA 205 ◊ - Women in Criminal Justice**
3 credits
Provides an in-depth examination of the changing roles of women in the justice system, which includes women as offenders, victims and professionals. A survey of women in criminal justice professions, an assessment of women as victims and as criminals, as well as an investigation of the impact of gender on adjudication and sentencing will be discussed. Special topics such as sexual crimes and domestic violence will be examined.

Lecture: 3

**CJA 219 ◊, # - Criminal Law I**
3 credits
Includes the study of substantive criminal law and its relationship to common law and case law; essential elements of felonies and pertinent misdemeanors including structure, definitions and most frequently used sections of criminal statutes.

Prerequisite: Writing and reading assessment test score of 4; or a grade of C or better in RHT095 or RHT096 and RHT085 or RHT086
Lecture: 3

**CJA 236 ◊, # - Criminal Law II**
3 credits
An in-depth study of the criminal code of the State of Illinois, including classification of crimes and their application to the justice system's legal rules governing police practices and procedures. The structure, definitions and pertinent sections of law and procedure also are included.

Prerequisite: CJA 219◊
Lecture: 3

**CJA 241 ◊ - Traffic Enforcement & Administration**
3 credits
The history and development of traffic laws and regulations, and basic elements of most common traffic violations and their detection. Special attention is given to the apprehension and processing of impaired drivers and current guidelines and procedures for effective traffic accident investigation and reporting.

Lecture: 3

**CJA 246 ◊, # - Laws of Evidence**
3 credits
Evidence and the rules governing admissibility in court are explored. Elements necessary to establish criminal intent, search and seizure and implications of the U.S. Supreme Court regarding evidence also are discussed.

Prerequisite: CJA 236◊
Lecture: 3

**CJA 257 ◊, # - Law Enforcement Administration**
3 credits
The fundamental concepts of supervision and management are examined, along with the current processes of recruitment, selection and retention of qualified law enforcement personnel. The internal and external factors affecting the role of police administrators in relation to organizational communications, community relations, and legal aspects connected to the performance of the police in modern society are also covered. Special attention is given to the effects of politics on the police, unionization, and organizational change.

Prerequisite: CJA 111◊
Lecture: 3

**CJA 296 ◊ - Special Topics in Criminal Justice**
0.5 - 4 credits
Study of special topics related to the criminal justice system, including law enforcement issues, judicial concerns, decisions, and correctional ideologies. Delivery of subject matter includes readings, discussion groups, guided research and field trips. Course may be repeated, if topics are different, however, only three-credits may be applied toward graduation requirements. Topics are selected on a basis of timeliness and interest.

Lecture: 0.5-4
Laboratory: 0.5-8

**CJA 298 ◊, # - Law Enforcement Administration II**
3 credits
The primary responsibilities of the law enforcement executive to organize and manage through established policies and procedures are covered. A practical review of strategies and techniques used in the deployment of police personnel and their resources while addressing issues related to employee productivity, accountability, and discipline. (formerly Applied Law Enforcement Administration)

Prerequisite: CJA 257◊
Lecture: 3

# CMA - Certified Medical Assisting

### CMA 101# - Introduction to Medical Assisting

2 credits

Foundational issues and trends surrounding the knowledge and skills necessary for practicing as a medical assistant. Overview of the U.S. health care industry, health care organizations and personnel, health as a concept, human development, professionalism, the roles and responsibilities of medical assistants, communication and interpersonal relations, patient education, and risk management. Emphasizes legal and ethical principles governing health services delivery.

Prerequisite: admission to the Certified Medical Assistant program
Lecture: 1
Laboratory: 2

### CMA 102# - Medical Assistant Administrative Applications I

3 credits

Selected administrative and clerical procedures germane to outpatient health care services. Includes computer and electronic applications, health information management, written communication, office safety, clinical facilities and operations management, management principles, human resources management principles, risk management principles, and community referral resources.

Prerequisite: admission to the Certified Medical Assistant program, or permission of the CMA program coordinator
Lecture: 2
Laboratory: 2

### CMA 103 ◊, # - Medical Assistant Administrative Applications II

3 credits

Selected front office and medical practice financial management procedures. Includes banking, accounting, billing and collections, payroll, reception, telecommunications, appointment management, and insurance claims management applications. (Spring 2016) *(course fee required)*

Prerequisite: admission to Certified Medical Assistant program, or permission of the CMA program coordinator
Lecture: 2
Laboratory: 2

### CMA 110 ◊, # - Medical Assistant Clinical Applications I

3 credits

Selected clinical procedures common to medical assisting and germane to outpatient health care services. Includes associated diseases and disorders; infection control; medical chart documentation; eliciting a patient health history, vital sign and anthropometric mensuration; preparing for and assisting with routine physical examinations, and selected obstetric, gynecological, and pediatric procedures. (Spring 2016)

Prerequisite: admission to the Certified Medical Assistant program, or permission of the CMA program coordinator
Lecture: 2
Laboratory: 2

### CMA 130 ◊, # - Medical Assistant Clinical Applications II

3 credits

Associated diseases and disorders, asepsis and infection control, medication administration, pulmonary function testing, minor surgical procedures, medical emergencies, visual and auditory applications, physical therapy modalities, diagnostic imaging, and nutrition and diet therapy. (Spring 2016)

Prerequisite: admission to the Certified Medical Assistant program, or permission of the program coordinator
Lecture: 2
Laboratory: 2

### CMA 180 ◊, # - Medical Assistant Laboratory Applications

3 credits

Perform and document common clinical laboratory assays performed in ambulatory care settings. Laboratory safety, Clinical Laboratory Improvement Act regulations, microscopy, urinalysis, specimen collection and processing, quality assurance, and selected hematological, clinical chemistry, immunoserological, microbiological, and toxicological analyses. (Spring 2016) *(course fee required)*

Prerequisite: admission to the Certified Medical Assistant program, or permission of the CMA program coordinator
Lecture: 2
Laboratory: 2

### CMA 200 ◊, # - Medical Assistant Practicum

1 credit

Clinical practicum in an outpatient facility that provides ambulatory primary or secondary health care services. Under the supervision of qualified staff, students will apply the knowledge and skills gained during their didactic training. *(course fee required)*

Prerequisite: CMA 101, CMA 102, CMA 103◊, CMA 110◊, CMA 130◊, CMA 180◊
Clinical Laboratory: 2

### CMA 250 ◊, # - Certified Medical Assistant Seminar

3 credits

Preparation for a Medical Assistant credentialing exam will be emphasized, along with work devoted to preparing for medical assistant employment to include professionalism, work-place etiquette, cover letter and resume preparation, and interviewing principles and techniques. (formerly 'Certification Review for Medical Assistants')(Spring 2016)

Prerequisite: CMA 101, CMA 102, CMA 103◊, CMA 110◊, CMA 130◊, CMA 180◊
Lecture: 3

# COL - College Orientation

### COL 102 ◊ - Embracing the College Experience

3 credits

Preparation for a successful transition into college by focusing on skills, including time management, goal setting, money management, note-taking and test-taking strategies. (formerly Learning Frameworks for College Success) (Summer 2018)

Lecture: 3

# COT - Construction

### COT 101 ◊ - Introduction to Architecture, Engineering and Construction

1 credit

A survey of the various segments of the construction industry and the career opportunities available within those areas. Students gain an understanding of the basis for critical assessment of various manmade environments. Students learn how planning, design, construction and development can help create, preserve and restore valued qualities in our built environment.

Lecture: 1

### COT 106 - Carpentry: Rough Carpentry

3 credits

Basic framing systems and principles used in residential construction: floor framing, wall framing and roof framing. (formerly IBC 105) (Fall 2018) *(course fee required)*

Lecture: 1
Laboratory: 4

### COT 107 ◊ - Codes, Specifications and Print Reading

3 credits

Identify and learn the various codes and regulations used in the Construction Industry. Read and understand construction documents (drawings and specifications) used for bidding and construction of both residential and commercial buildings. (formerly ARC, Construction Drawings & Specifications) (Fall 2018) *(course fee required)*

Lecture: 2
Laboratory: 2

### COT 111 - Plumbing Fixtures, Valves & Faucets

3 credits

Basic plumbing principles, focusing on fixtures, valves and faucets, including practices and the history of plumbing, along with plumbing tools and equipment, safety, and related calculations. (formerly IBC 110) (Fall 2018) *(course fee required)*

Lecture: 2
Laboratory: 2

### COT 118 ◊ - Construction Safety & Loss Prevention

2 credits

A review of general safety procedures for the construction industry with emphasis on OSHA regulations is provided. Employee responsibilities, record keeping and inspection procedures are included. *(course fee required)*

Lecture: 2

### COT 142 ◊ - Construction Contract Documents

3 credits

A study of standard written legal documents used in management of building construction projects, such as General Conditions of the Contract, Supplementary Conditions, Specifications, Performance Bonds, Request for Interpretation, Change Orders, Waivers of Lien and Certification of Insurance. (formerly ARC 146) (Fall 2018) *(course fee required)*

Lecture: 3

### COT 164 ◊ - Soils

2 credits

Learn about soil as a construction material with emphasis on the techniques and methods of performing laboratory and field tests for soil classification, moisture-density relationships and unconfined compression testing. Test procedures are based upon ASTM and AASHO standards. *(course fee required)*

Lecture: 1
Laboratory: 2

### COT 206 - Carpentry: Finished Carpentry

3 credits

Installation of finish materials in residential construction. Sheathing, siding, insulation, stairs, flooring, drywall installation and finishing, as well as miter cuts and installation of crown molding, base molding, casing, wainscot paneling, door installation, window installation and roofing, including wall finishing, paint finishes, wall paper and paneling. (formerly IBC 205) (Fall 2018) *(course fee required)*

Lecture: 1
Laboratory: 4

### COT 210 - Plumbing: Fixture Installation

3 credits

Plumbing principles related to the installation and repair of plumbing products in a residential setting. Plumbing tools and equipment, safety, print reading and sketching, related calculations, and the installation of various plumbing systems. (formerly IBC) (Fall 2017) *(course fee required)*

Lecture: 2
Laboratory: 2

### COT 211 - Plumbing: Fixture Repair

3 credits

Plumbing principles related to the repair of plumbing products in a residential setting. Plumbing tools and equipment, safety, print reading and sketching, and the installation and repair of various plumbing systems. (Fall 2018) *(course fee required)*

Lecture: 2
Laboratory: 2

**COT 245 ◊ - Construction Jobsite Supervision**
3 credits
Labor-management relations in the construction industry are discussed. Emphasis is placed on developing supervisory skills and techniques for motivating workers.

Lecture: 3

**COT 246 ◊, # - Construction Internship I**
1 - 4 credits
Supervised construction management experience at a college selected office. Students participate in various construction management careers, including but not necessarily limited to: construction project manager, field superintendent, claim analyst, safety officer, scheduler, cost estimator, land surveyor, plan examiner, code enforcement official, and building inspector. *(course fee required)*

Prerequisite: COT 101◊ OR
Corequisite: with COT 101◊; and completion of twelve semester hours, including two additional courses in the discipline
Internship: 1-4

**COT 248 ◊ - Construction Planning & Scheduling**
3 credits
Study and practice the planning, scheduling and monitoring of construction projects from the simple process of listing and sequencing to more complicated systems in practice today. Primavera Sure-Trac Software and Microsoft Project software will be covered. (formerly ARC) *(course fee required)*

Lecture: 2
Laboratory: 2

**COT 250 ◊ - Construction Project Management**
3 credits
Administration and control of material, time, budget, production and contracts of a construction project are covered. *(course fee required)*

Lecture: 3

**COT 258 ◊ - Construction Cost Estimating**
3 credits
Explore cost engineering through detailed presentation of cost estimation and relationship to project-control functions, including scheduling, budgeting, job-cost accounting, job-cost control and determination of unit prices. Timberline estimating software will be taught. (formerly ARC) (Fall 2018) *(course fee required)*

Lecture: 3

**COT 270 ◊, # - Intermediate Surveying**
3 credits
Theory and practice of Surveying including: coordinate geometry; balancing traverse; route surveying and layout; legal principals of surveying and land division. Field applications of these subjects. *(course fee required)*

Prerequisite: ARC 269◊
Lecture: 1
Laboratory: 4

**COT 272 ◊, # - Surveying Law**
3 credits
Legal aspects of surveying relative to boundary control, including sequential and simultaneous conveyances, adverse possession, riparian rights and boundaries and other interests in real property. Study of evidence and how it impacts boundary surveying will be reviewed. State laws and standards which impact surveys are studied.

Prerequisite: COT 270◊
Lecture: 3

**COT 273 ◊, # - Advanced Surveying**
3 credits
Application of surveying skills relevant to the construction field. Projects such as layout of commercial and industrial buildings, transfer of horizontal and vertical control, establishment of route centerlines, establishment of lines and grades, determination of earthwork quantities, establishing slope stakes, triangulation and topographic mapping will be studied. Instruments used will include transits, theodolites, automatic levels, construction lasers, and EDM's. *(course fee required)*

Prerequisite: COT 270◊
Lecture: 2
Laboratory: 3

# CSG - Counseling & Guidance

**CSG 150 ◊ - Career and Life Planning**
1 credit
Development of self-knowledge to make appropriate career and lifestyle plans. Skills necessary for life planning and decision making in relation to education, occupation and leisure time are emphasized.

Lecture: 1

**CSG 296 ◊ - Special Topics in Counseling**
1 - 4 credits
Selected topics in the areas of counseling may vary from semester to semester and information will be available during registration. This course may be repeated up to 3 times when content is different, but a maximum of 6 credit hours can be used to meet graduation requirements.

Lecture: 1-4

# CWE - Cooperative Education

**CWE 290 ◊, # - Cooperative Work Experience**
2 credits
Work experience will integrate classroom theory with on-the-job training. The college will assist the student in securing employment related to the field of study and / or career interests. The college will also provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be used in searching for employment. Under the supervision of the college and the employer, the student

participates in job-training experiences. The student will work a total of 240 hours. (Summer 2017)

Prerequisite: (1) completion of 12 college credit hours, two (2) of these courses, in discipline, must be completed; (2) 2.0 Grade Point Average ('C' average); (3) approval of Cooperative Education Office
Internship: 3

**CWE 291 ◊, # - Cooperative Work Experience**
2 credits
Continuation of the first co/op course, CWE 290◊. Students have the option to continue with their previous place of employment or select a different area of concentration related to their field of study. Work experience must go beyond what was learned in the previous co/op class or consist of an entirely different learning experience. Continuous growth of the individual is emphasized. As with the previous co-op experience, the college will continue to provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be used in searching for employment. (Summer 2017)

Prerequisite: 1) CWE 290◊ with a 'C' or better; 2) 2.0 Grade Point Average ('C' average); 3) approval of Cooperative Education Office
Internship: 3

# DAN - Dance

**DAN 110 ◊ - Dance Appreciation**
3 credits
Aesthetic considerations of dance as a fine art. The study of the history of dance, its role in human communication and expression and its effect on contemporary life. Comparative study of dance in relation to music, drama and visual art.

Lecture: 3

# DIS - Public Dispatching

**DIS 111 - Introduction to Public Safety Dispatching**
3 credits
Introduces the student to the basics and foundations of the public safety dispatcher.

Lecture: 3

**DIS 121 - Law Enforcement Dispatching**
2 credits
Introduces the student to the role of a law enforcement dispatcher.

Lecture: 2

**DIS 131# - Fire/EMS Dispatching**
2 credits
Introduces the student to the role and responsibilities of an effective Fire/Emergency Medical Service (EMS) dispatcher.

Prerequisite: DIS 111
Lecture: 2

**DIS 132# - Emergency Medical Dispatcher**
2 credits
End-user productivity in obtaining information from callers, selecting the proper protocol, dispatching proper resources and giving telephone medical instructions.

Prerequisite: DIS 111
Lecture: 2

# DMS - Diagnostic Medical Sonography

**DMS 100 ◊, # - Introduction to Imaging Physics**
1 credit
Imaging modalities, units of measurements and conversions, basic physical principles and their quantities, mechanics of motion, types of energy and waves and their relationships to sonography. (formerly AHL 115◊) (Fall 2017)

Prerequisite: MAT 055
Lecture: 1

**DMS 101 ◊, # - Ultrasound Physics I**
3 credits
Acoustic physics in terms of the characteristics and properties of sound energy, and the manner in which very high frequency sound (ultrasound) is used in imaging. Physical principles examined will include wave forms, propagation, relationship of velocity of propagation to frequency and wavelength, acoustic impedance, reflection, refraction, other types of attenuation, transducers and basic layout of a pulse echo imaging system. *(course fee required)*

Prerequisite: admission to program
Lecture: 3

**DMS 102 ◊, # - Ultrasound Physics II**
3 credits
Applied ultrasound physics as related to ultrasound system design and instrumentation. Signal and imaging processing techniques and their applications, principles of fluid dynamics and the fundamentals of Doppler physics and instrumentation are presented. Quantitative methods utilized in acoustic output measurement and quality assurance are discussed, and the current data on the biologic effects of ultrasound are reviewed. *(course fee required)*

Prerequisite: DMS 101◊
Corequisite: with DMS 110
Lecture: 3

**DMS 106 ◊, # - Introduction to Ultrasound Principles & Procedures**
3 credits
Principles of patient care to prepare students for work in a clinical setting with discussions of evolution of field, professional organizations, safety and ergonomics, patient-sonographer interaction, imaging orientation and echographic terminology and supported by practical lab application. *(course fee required)*

Prerequisite: admission into DMS program
Corequisite: with DMS 101◊
Lecture: 2
Laboratory: 2

**DMS 110# - General Sonography and Applications**
7 credits
Comprehensive presentation of image orientation and terminology, normal as well as anatomical variations and basic pathologies of the abdomen, pelvis and obstetric specialties in sonographic imaging. *(course fee required)*

Prerequisite: DMS 101◊, DMS 106◊; DMS 102◊ and DMS 121◊ OR
Corequisite: with DMS 102◊ and DMS 121◊
Lecture: 5
Laboratory: 4

**DMS 121 ◊, # - Cross Sectional Anatomy**
5 credits
Human anatomy in transverse, sagittal, coronal and oblique planes in order to enable the student to identify the structures seen in each plane, and to visualize any portion of the anatomy as it relates to the body as a three-dimensional whole and to ultrasound imaging planes. *(course fee required)*

Prerequisite: BIS 234◊
Lecture: 5

**DMS 131 ◊, # - Clinical Applications I**
1 credit
Basic clinical procedures in Diagnostic Medical Sonography, patient care, instrumentation and quality assurance. Exposure to a health care environment and communication procedures will be provided. (Fall 2016) *(course fee required)*

Corequisite: DMS 135◊ and DMS 136◊
Clinical Laboratory: 2

**DMS 135 ◊, # - Ultrasound Film Critique**
2 credits
Designed to correlate ultrasound knowledge with visual images, including extensive viewing of normal verses abnormal ultrasound images. *(course fee required)*

Corequisite: DMS 131◊, DMS 136◊
Lecture: 2

**DMS 136 ◊, # - Principles & Procedures of Ultrasound Imagery**
2 credits
Review of the basic principles and procedures of ultrasound imagery as they apply to abdominal, small parts, obstetric and genealogical procedures, including instrumentation optimization for given procedures and protocols. (Fall 2017) *(course fee required)*

Prerequisite: DMS 102◊, DMS 110, DMS 121◊
Corequisite: with DMS 131◊ (degree only), DMS 135◊
Lecture: 2

**DMS 141 ◊, # - Clinical Applications II**
2 credits
Clinical course designed to provide opportunities for students to attain competency in ultrasound imaging of Abdominal and Obstetric and Genealogical sonographic exams, with an exposure to Vascular studies provided. (Fall 2016) *(course fee required)*

Prerequisite: DMS 131◊; DMS 135◊, DMS 136◊
Corequisite: with DMS 146◊
Clinical Laboratory: 4

**DMS 144# - Sonography Seminar**
2 credits
Physical and psychological needs of the ultrasound patient that includes communication skills, professionalism, ethics, clinical competency and effective patient interaction. (Fall 2016) *(course fee required)*

Prerequisite: DMS 131◊
Corequisite: with DMS 141◊, DMS 146◊, DMS 200◊
Lecture: 1
Laboratory: 2

**DMS 146 ◊, # - Pathology & Diagnostic Sonography**
3 credits
An in-depth study of the principles and procedures of abdominal, OB/GYNE, and neonatal sonography, focusing on Pathology of those specific organs. Correlation with prognosis and treatment of specific pathologic conditions as well.

Prerequisite: DMS 135◊, DMS 136◊
Corequisite: with DMS 141◊
Lecture: 3

**DMS 151 ◊, # - Clinical Applications III**
2 credits
Final clinical course designed to provide opportunities for students to attain competency in ultrasound imaging of abdominal and obstetric and genealogical sonographic exams, with an exposure to vascular studies. (Fall 2016) *(course fee required)*

Prerequisite: DMS 141◊, DMS 146◊
Corequisite: with DMS 201◊
Clinical Laboratory: 4

**DMS 200 ◊, # - Principles of Computerized Sonography**
2 credits
Ultrasound physics application to high-resolution system design and instrumentation utilizing available computer packages, which will be linked with clinical situations. Color flow and Doppler function will be included.

Prerequisite: DMS 131◊
Corequisite: with DMS 146◊
Lecture: 2

**DMS 201 ◊, # - Sonographic Specialties**
4 credits
Coverage of non-routine sonographic procedures to include, musculoskeletal, emergent care, 3D/4D applications, neurosonography, pediatrics, prostate, general Doppler techniques, retroperitoneum, contrast applications, transplant organ evaluations, case studies as well as exam prep, resume and interviewing techniques presented and then applied in lab. *(course fee required)*

Prerequisite: DMS 141◊
Corequisite: with DMS 151◊, DMS 210
Lecture: 2.5
Laboratory: 3

**DMS 210# - Introduction to Peripheral Vascular Sonography**
2 credits
Introduction to basic peripheral vascular imaging techniques and procedures including basic arterial and venous studies with a focus on carotid artery and basic venous exams to rule out deep vein thrombosis. Students will correlate the physical principles of Doppler and development of procedures utilized in imaging departments. *(course fee required)*

Prerequisite: DMS 141◊
Corequisite: with DMS 151◊, DMS 201◊
Lecture: 2

# ECE - Early Childhood Education

**ECE 110 ◊ - Early Child Development**
3 credits
Theory and principles of human growth and development from conception through adolescence. In-depth study of the inter-relatedness of physical, cognitive, social and emotional aspects of development in the context of the family, gender, culture, language, ability, diversity, and society. Special emphasis will be on theories of Piaget, Vygotsky, Erikson, Maslow, and Skinner. Field observations required.

Lecture: 3
IAI: ECE 912

**ECE 111 ◊ - Introduction to Early Childhood Education**
3 credits
Overview of early childhood care and education including historical perspectives, organization, structure programming and basic values in Early Childhood Education. Professional practices of early childhood educators are outlined with an emphasis on supporting skill development of children from birth to age 8 during each age and stage of development; with a survey of the principles of planning, implementing, and evaluating developmentally appropriate curriculum. Field observations required.

Lecture: 3

**ECE 115 ◊ - Infant Toddler Development**
3 credits
Examine cognitive, social and emotional development of infants from prenatal development through toddlerhood. The importance of attachment and separation with infant and toddler growth and development, including ways of providing a safe, stimulation and nurturing environment that fosters the optimum growth and development of an individual. (Fall 2016) *(course fee required)*

Lecture: 2
Laboratory: 2

**ECE 118 ◊, # - Health, Nutrition & Safety**
3 credits
Methods of teaching health safety and nutrition to young children are covered. Techniques of menu planning, and program considerations of nutrition, health, hygiene and safety standards for the young child in group care are implemented. Developmentally appropriate practice and licensing standards are emphasized. *(course fee required)*

Prerequisite: ECE 110◊, ECE 111◊
Lecture: 2
Laboratory: 2

**ECE 121 ◊, # - Language Development & Activities**
3 credits
Provides in-depth knowledge and understanding of language development and theory, stages involved, the role that adult's play and the relationship of language to other aspects of development. Teaching methods are introduced emphasizing the interrelatedness of literacy in all developmental domains and curriculum areas. Students will plan, prepare materials, implement, and evaluate activities in a field setting. *(course fee required)*

Prerequisite: ECE 110◊, ECE 111◊
Lecture: 2
Laboratory: 2

**ECE 122 ◊, # - Infant/Toddler Care and Curriculum**
3 credits
Principles, practices and programming for infants and toddlers. Developmentally appropriate practice within the context of the child's family. Field observations required.

Prerequisite: ECE 110◊ or ECE 115◊
Lecture: 3

**ECE 136 ◊ - School Age Programming**
3 credits
Focuses on planning and organizing programs and activities appropriate for school age children (6-12 yrs.). Emphasis will be place on implementing developmentally appropriate activities. This course is designed to provide the student with knowledge and skills necessary to work effectively with this age group.

Lecture: 3

**ECE 138 ◊, # - Observation, Assessment, Curriculum and Guidance of Young Children**
3.5 credits
Study and practical application of evidence-based practices in early childhood education principles and theories. Students work with diverse young children and families in high-quality early childhood settings under the supervision of a site supervisor and a college course work supervisor. *(course fee required)*

Prerequisite: ECE 110◊, ECE 111◊, and must have 'clear' on DCFS licensing background check and complete medical forms
Lecture: 3
Clinical Laboratory: 1

**ECE 142 ◊, # - Students With Disabilities in School**
3 credits
Overview of children with exceptional cognitive, physical, and social/emotional characteristics. Analysis of current issues related to educational implications for children with special needs, their families, and the community. Identification, intervention strategies, methods, and programs to meet their needs are examined. Study of applicable federal and state laws and requirements: Individuals with Disabilities Education Act, Americans with Disabilities Act, Individualized Family Service Plan, Individualized Education Programs and inclusive programming. Fulfills requirements of School Code 25.25. Field observations required. (Fall 2016)

Prerequisite: ECE 110◊ and ECE 111◊
Lecture: 3

**ECE 146 ◊, # - Child, Family & Community**
2 credits
Concentrates on teacher's role in working with the child's family and community, stresses parent education, changing families, cultural diversity and legal responsibilities. Specifies criteria and methods for effective parent-teacher-child communication and relationship building. Includes an in-depth study of community resources and partnership building.

Prerequisite: ECE 110◊ and ECE 111◊
Lecture: 2

**ECE 150 ◊ - Teacher Assistant/Aide Test Preparation and Review**
1 credit
Prepares individuals for completing state-endorsed education paraprofessional examinations. Includes an introduction to standardized tests, a review of basic skills, and test taking strategies. Curriculum reflects content from the two state-endorsed paraprofessional exams: the ACT WorKeys and the ETS Parapro. This course is intended to serve as a refresher/review course for paraprofessionals that have learned the subject matter earlier in their educational experience.

Lecture: 1

**ECE 151 ◊ - Communicating With Parents and Children**
1 credit
Effective communication skills needed to establish positive relationships with children, their families, and co-workers.

Lecture: 1

**ECE 152 ◊ - Principles of Child Growth and Development, Birth - 5**
1 credit
Overview of human growth and learning from conception to age five. The importance of the child's environment is emphasized as associated with the young child's total development.

Lecture: 1

**ECE 153 ◊ - Guiding Children and Managing the Classroom**
1 credit
Children's behaviors and positive guidance methods for creating a pro-social classroom environment.

Lecture: 1

**ECE 154 ◊ - Activities and Resources for Young Children I**
1 credit
Overview of developmentally appropriate practice and activities to support the curriculum areas of art, music and movement, motor, health, safety, and nutrition.

Lecture: 1

**ECE 155 ◊ - Activities and Resources for Young Children II**
1 credit
Planning the developmentally appropriate curriculum environment. Topics covered will include schedules, projects and activities in the curricular areas of math, science, social studies, self-concept language, literature, dramatic play and group times.

Lecture: 1

**ECE 156 ◊ - Effective Teaching**
1 credit
Provides methods for maintaining and increasing effective teaching behaviors. Topics include relations with parents and coworkers, teacher behaviors, avoiding burnout, growing professionally, advocacy and professional ethics.

Lecture: 1

**ECE 230 ◊, # - Theory of Play**
3 credits
Theories of play and its affect on physical, cognitive, social and emotional development will be explored through lectures, readings and play experiences. The role of the teacher in facilitating play and choosing appropriate equipment will be

stressed. Emphasis will be on children from birth to middle childhood.

Prerequisite: ECE 110◊ and ECE 111◊
Lecture: 3

**ECE 231 ◊, # - Science and Math for Children**
3 credits
Investigate through theory and practice how the young child gains an understanding of scientific and mathematical concepts. Developmentally appropriate materials, curriculum planning and implementation is stressed. (Fall 2016) *(course fee required)*

Prerequisite: ECE 110◊ and ECE 111◊
Lecture: 2
Laboratory: 2

**ECE 233 ◊, # - Creative Activities for the Young Child**
3 credits
An in-depth look at the variety of experiences suitable for creative artistic expression of the young child, focusing on art, music and movement. The use of various media to provide opportunities for expression and exploration. The interrelations of the creative arts and the development and developmentally appropriate practices are emphasized. (Fall 2016) *(course fee required)*

Prerequisite: ECE 110◊ and ECE 111◊
Lecture: 2
Laboratory: 2

**ECE 250 ◊, # - Administration & Supervision of Early Childhood Programs**
3 credits
Supervision and administration techniques and issues of licensed early childhood facilities. Areas of planning, organizing, staffing, reports and budgeting will be covered. State and local licensing regulations, as well as legal issues. (Fall 2016) *(course fee required)*

Prerequisite: ECE 110◊ and ECE 111◊
Lecture: 3

**ECE 251 ◊, # - Practicum**
4 credits
Emphasizes the practical application of early childhood education principles and theories while working with young children in a licensed setting supervised by a qualified professional cooperating teacher and a college instructor. Quality care and developmentally appropriate practice are emphasized. *(course fee required)*

Prerequisite: ECE 118◊, ECE 121◊, ECE 138◊, ECE 231◊
Corequisite: with ECE 252◊
Lecture: 2
Clinical Laboratory: 4

**ECE 252 ◊, # - Seminar**
3 credits
Review and discussion of special projects performed in an early childhood program by the students enrolled in the practicum. Application of theories and developmentally appropriate practices are emphasized.

Prerequisite: ECE 118◊, ECE 121◊, ECE 138◊, ECE 231◊
Corequisite: with ECE 251◊
Lecture: 3

**ECE 296 ◊ - Special Topics in Early Childhood Education**
0.5 - 3 credits
Special interest topics and newly developing areas of interest in Early Childhood Education will be provided. Content and format of this course are variable. Subject matter will be indicated in the class schedule. Course may be repeated up to 3 times when topics are different, but only 3 hours can be used to meet graduation requirements.

Lecture: 0.5-3
Laboratory: 1-6

## ECO - Economics

**ECO 100 ◊ - Principles of Economics**
3 credits
A survey course for non-business and non-economics majors that introduces the student to both micro and macroeconomics. Topics include price theories and behavior of the firm under varying economic conditions, product and resource markets, the economic roles of business, national income theories, government and households, economic fluctuations and growth, fiscal policy, money, banking and monetary policy, and international economics. No credit granted if credit has been earned in ECO 102◊, ECO 103◊ or the equivalent of either course.

Lecture: 3
IAI: S3 900

**ECO 102 ◊ - Macroeconomics**
3 credits
Introductory concepts of principles of macroeconomics, which deals with the aggregate economy. An overview of macroeconomic topics; aggregate supply and demand, total output, unemployment, inflation, fiscal, and monetary policy. Contrasts the differences between Classical and Keynesian economics through consumption, saving, investment and interest rate analysis. (Fall 2016)

Lecture: 3
IAI: S3 901

**ECO 103 ◊ - Microeconomics**
3 credits
Introductory concepts of principles of microeconomics, which deals with the individual parts of the economy. An overview of microeconomic topics; market supply and demand, theory of consumer behavior, price elasticity, business firms, competition, monopoly and market structures, price floors and ceilings, and labor market, poverty, and the distribution of income. (Fall 2016)

Lecture: 3
IAI: S3 902

**ECO 105 ◊ - Consumer Economics**
3 credits
The study of the consumer's private and public role in the U.S. economic system, the role of values in the allocations of consumer resources to alternative uses, techniques of money management and knowledge and skills that contribute most to the consumer's and society's welfare.

Lecture: 3

**ECO 150 ◊, # - Money, Credit & Banking**
3 credits
A study of the monetary banking systems, the Federal Reserve Systems, price fluctuation, foreign exchange financing, specialized financial institutions in the United States and Monetary Theory.

Prerequisite: ECO 102◊ or ECO 103◊
Lecture: 3

**ECO 170 ◊, # - Statistics for Business and Economics**
3 credits
Basic concepts of statistical analysis used in business decision-making and methods of analyzing quantitative economic and business data, including descriptive statistics, measures of central tendency and variability, probability, random variables, binomial and normal distributions, sampling distributions, large and small sample statistical inference, estimation and hypothesis testing, the chi-square distribution, linear regression and correlation, t and F tests and analysis of variance, and an introduction to the use of technology in statistical analysis. (Fall 2016)

Prerequisite: MAT 110◊ or placement into Calculus or Finite Math
Lecture: 3
IAI: M1 902

**ECO 171 ◊, # - Elements of Statistics II**
3 credits
Correlation and regression, sampling index numbers, time series, and goodness of fit tests are covered. This course is to be a continuation of ECO 170◊ for a year-long study of statistics.

Prerequisite: ECO 170◊
Lecture: 3

**ECO 296 ◊ - Special Topics in Economics**
1 - 4 credits
Provides exposure to international topics and problems in the field of economics. Topics vary from semester to semester and must be approved by the Dean of Arts and Sciences. Course may be repeated an additional 3 times, but not more than 8 hours may be used for a student to complete the degree requirement of a program.

Lecture: 1 - 4

# EDU - Education

**EDU 055 - Basic Skills Review**
2 credits
Provides students with an overview of structure, format and content of the Illinois Basic Skills Test needed for Illinois Certification. The satisfactory passing of the Basic Skills Test is a requirement for completion of the Associate in Arts Teaching (AAT) degrees and acceptance into four-year teacher preparation programs. Course may be repeated for a maximum of three times.

Lecture: 2

**EDU 105 ◊ - Technology for Educators**
3 credits
Designed to give present and future educators a broad overview of the technologies available for use in the classroom, as well as educational support for instruction. Allows teachers to model and apply technology standards for students as they design implement and assess learning experiences. Course objectives are aligned with the Illinois Standards for Teacher Education (ISTE) and National Educational Technology Standards for Students (NETS) indicators for teachers. (formerly VIC)

Lecture: 2
Laboratory: 2

**EDU 110 ◊ - Diversity of Schools and Society**
3 credits
Diversity of Schools and Society: Social and Global Perspectives. How schooling is shaped by the social contexts in which it occurs, particularly in multicultural and global contexts. In addition students will study the principles and practices for teaching in classrooms with cultural and language diversity. (Fall 2015)

Lecture: 3

**EDU 200 ◊, # - Introduction to Special Education**
3 credits
A survey course that presents the historical, philosophical and legal foundations of special education, as well as an overview of the characteristics of individuals with disabilities, the programs that serve them under the Individuals with Disabilities Education Act, and the diversity of the populations of individuals with disabilities. Also included are current research, applicable laws, and assessment practices, program development, progress monitoring and transition planning. A field experience is required. (Fall 2015)

Prerequisite: ECE 110◊ or EDU 206◊
Lecture: 3

**EDU 203 ◊ - Portfolio Development for Educators**
1 credit
Provides students with the tools needed to develop and manage an electronic portfolio for use in tracking program achievement aligned with the Illinois Professional Teaching Standards. Students will create standard based portfolio templates that meet

accreditation requirements. Students entering into an education program must develop and track course work throughout their studies in an electronic format to be used for assessing achievement relevant to educational course work and work with the Illinois Professional Teaching Standards.

Lecture: 1

**EDU 206 ◊, # - Human Growth and Development**
3 credits
Students will examine the aspects of human growth and development from conception through adulthood utilizing developmental theories and research methods. All major areas of development including physical, social, emotional, and cognitive changes will be addressed, including interaction of these areas.

Prerequisite: PSY 100◊
Lecture: 3

**EDU 207 ◊, # - Introduction to Education**
3.5 credits
An introduction to teaching as a profession in the American education system. Offers a variety of perspectives on education, including historical, philosophical, social, legal, and ethical issues in a diverse society, organizational structure and school governance. An off-site observation is required.

Prerequisite: placement into RHT 101◊
Lecture: 3
Clinical Laboratory: 1

**EDU 208 ◊, # - Introduction to the Foundations of Reading**
3 credits
Introduction to theory and practice in teaching reading and related language arts areas. Includes information on basic components of reading instruction and language arts instruction, and the importance of literacy learning. Includes an introduction to Illinois Learning Standards in the areas of reading and language arts.

Prerequisite: ECE 110◊ or EDU 206◊ and ECE 111◊ or EDU 200◊
Lecture: 3

**EDU 209 ◊, # - Language Development**
3 credits
A study of normal language development from birth through school age and an understanding of how children may progress through language development stages at differing rates. The learner also will develop an understanding of the effects of diversity, including cultural and linguistic diversity on language development.

Prerequisite: ECE 110◊ or EDU 206◊
Lecture: 3

**EDU 215 ◊, # - Educational Psychology**
3 credits
The application of psychology principles underlying educational practice. Theories concerning cognitive and psychological development, human learning, and motivation are studied with emphasis on application for instruction, including assessment. Emphasis also will be placed on learner-centered instruction and diversity.

Prerequisite: ECE 142◊ or PSY 100◊
Lecture: 3

# EMP - Emergency Management

**EMP 103 ◊, # - Intermediate Incident Command System**
1 credit
Enables students to function as supervisors in an ICS environment.

Prerequisite: FIR 102◊
Lecture: 1

**EMP 111 ◊ - Principles of Emergency Management & Planning**
2 credits
Introduction to the fundamental aspects of emergency management. Designed to walk participant through the Emergency Operation (EOP) Center development process and provide opportunities to work as a team to create an effective,

up-to-date EOP that conforms to current FEMA guidelines.

Lecture: 2

**EMP 112 ◊, # - Emergency Management Operation**
2 credits
Improves the ability to manage emergencies through preparedness, response, recovery and mitigation.

Prerequisite: EMP 111◊ OR
Corequisite: with EMP 111◊
Lecture: 2

**EMP 113 ◊ - Emergency Planning & Special Needs Populations**
2 credits
Provides skills and knowledge needed to prepare for, respond to, recover from, and mitigate emergency situations.

Lecture: 2

**EMP 121 ◊ - Introduction to Mitigation**
1 credit
Provides an overview of the basic mitigation knowledge that is needed to introduce individuals to the field of mitigation and hazards threatening the community.

Lecture: 1

**EMP 122 ◊, # - Mitigation for Emergency Workers**
2 credits
Provides participants with the opportunity to learn and apply skills that will enable them to carry out mitigation responsibilities in accordance with the National Mitigation Strategy and applicable regulations and standards.

Prerequisite: EMP 121◊
Lecture: 2

**EMP 131 ◊ - Emergency Operations Center (EOC) Management and Operations**
1 credit
Designed to provide state and local emergency management officials with the knowledge and skills they need to operate the Emergency Operations Center (EOC).

Lecture: 1

**EMP 132 ◊, # - Incident Command System/Emergency Operations Center Interface**
1 credit
Designed to enable participants to develop ICS/EOC interface implementation strategies, or action plans. Reviews the ICS and EOC models of emergency management operations, including coordination, communication, and chief executive decision-making.

Prerequisite: EMP 131◊ and FIR 102◊ OR
Corequisite: with FIR 102◊
Lecture: 1

**EMP 141 ◊ - Basic Public Information Officers (PIO)**
2 credits
Provides participants with the basic skills needed to perform their public information duties as they relate to emergency management. Focuses on the definition of the job of the public information officer with an emphasis on emergency management.

Lecture: 2

**EMP 151 ◊ - Resource Management**
1 credit
Designed to provide Resource Management Coordinators with the knowledge and skills they need to perform resource management functions within the overall framework of the emergency operations center (EOC).

Lecture: 1

**EMP 161 ◊ - Disaster Response/Recovery Operations & RAPID Assessment**
3 credits
Designed to introduce the individual to basic concepts and operations of a disaster environment, especially in terms of major disaster incidents, and to broaden and enhance their understanding of State and local roles and responsibilities and their importance to the overall response and recovery effort. Also prepares students in performing rapid assessment accurately.

Lecture: 3

**EMP 201 ◊ - Debris Management**
2 credits
Provides emergency management personnel at all levels with an overview of issues and recommended actions necessary to plan for, respond to, and recover from a major debris-generating event with emphasis on local and State level responsibilities.

Lecture: 2

**EMP 211 ◊, # - Basic Skills in Emergency Program Management**
3 credits
Enables students to understand and be able to use proper leadership/influence, decision-making, problem solving, and effective communication in an emergency management situation.

Prerequisite: EMP 112◊
Lecture: 3

**EMP 221 ◊ - The Role of Volunteer Agencies in Emergency Management**
1 credit
Designed to increase awareness of the roles and responsibilities of voluntary agencies in emergency management.

Lecture: 1

**EMP 222 ◊, # - Developing Volunteer Resources**
1 credit
Designed to improve participants' skills in recognizing volunteer resources in the community, enhance participants' ability to manage the involvement of volunteers in all phases of emergency management, and broaden participants' thinking about the benefits of volunteer involvement.

Prerequisite: EMP 221◊
Lecture: 1

**EMP 223 ◊, # - Donations Management**
1 credit
Intended to introduce individuals to the concept of donations management and their roles and responsibilities in the donations management process.

Prerequisite: EMP 221◊
Lecture: 1

**EMP 231 ◊ - An Orientation to Community Disaster Exercises**
1 credit
Designed to provide an opportunity to learn about community disaster exercises and introduce the skills required to successfully design exercises that test a community's disaster response capabilities.

Lecture: 1

**EMP 232 ◊, # - Exercise Design**
1 credit
Intended to provide participants with the knowledge and skills to develop and conduct disaster exercises that will test a community's emergency operations plan and operational

response capability.

Prerequisite: EMP 231◊
Lecture: 1

**EMP 233 ◊, # - Exercise Program Manager-Management Course**
2 credits
Designed to support the training of exercise program managers and personnel with the responsibility of exercise program management in federal, state, and local government and private sector organizations.

Prerequisite: EMP 231◊ and EMP 232◊
Lecture: 2

**EMP 241 ◊ - Hazardous Weather and Flood Preparedness**
1 credit
Designed to help students understand the appropriate responses to hazardous weather, flood hazards, and flood flight operations.

Lecture: 1

**EMP 242 ◊, # - Warning Coordination & Maintaining Spotter Groups**
2 credits
Intended to enhance understanding the basics of coordinating a warning system for an emergency, and the ability to work with and strengthen the spotter network.

Prerequisite: EMP 243◊ OR
Corequisite: with EMP 243◊
Lecture: 2

**EMP 243 ◊, # - Hazardous Weather, Flooding & Hurricane Planning**
2 credits
Designed to help students understand the latest methods, techniques and lessons learned for developing flood and hurricane planning.

Prerequisite: EMP 241◊
Lecture: 2

# EMS - Emergency Medical Services

**EMS 121 ◊, # - Emergency Medical Responder**
3 credits
Designed to provide the student with the core knowledge, skills and attitudes to function in a first responder capacity prior to the arrival of an ambulance. Students will learn airway management; control of bleeding; splinting; oxygen therapy, extrication; and medical, environmental and other emergencies. Students who successfully complete the requirements of this course will become eligible for licensure as a first responder with the Illinois Department of Public Health Emergency Medical Services (EMS) Division. A minimum grade of a B is required for licensure. (formerly First Responder) *(course fee required)*

Prerequisite: High School graduate or GED/or in senior year of high school with an expected graduation date
Lecture: 2.5
Laboratory: 1

**EMS 131 ◊, # - Emergency Medical Technician**
7 credits
Emergency Medical Technicians EMT are trained in basic emergency skills and rescue techniques based on the guidelines and recommendations of the U.S. Department of Transportation (DOT) National Standard Curriculum and the Illinois Department of Public Health Division of Emergency Medical Services. Upon completion, students become eligible to take the state licensure exam. Students will receive training from the American Heart Association (AHA) and Federal Emergency Management Agency (FEMA) Emergency Management Institute (EMI). Students must complete all healthcare requirements and be approved by the Triton Health Services office prior to attending any clinical class (http://www.triton.edu/Health-Services/). A minimum grade of a 'B' is required to enable students to sit for the licensure exam. (Fall 2018) *(course fee required)*

Prerequisite: high school graduate or "High School Equivalency" & at least 18 years of age by time of State exam
Lecture: 5
Laboratory: 3
Clinical Laboratory: 1

# ENG - English Literature & Comp

**ENG 101 ◊, # - Introduction to Poetry**
3 credits
Exposes students to a wide range of poets, while the students develop a framework and vocabulary from which they may critically approach poetry. Students will react to and evaluate the poetry and their works.

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: H3 903

**ENG 102 ◊, # - Introduction to Drama**
3 credits
Introduction to drama through reading, discussion, and interpretation of representative plays. Selections from Greek, Renaissance (particularly Shakespeare), and Modern European and American Drama. (formerly 202) (Fall 2017)

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: H3 902

**ENG 103 ◊, # - Introduction to Fiction**
3 credits
Analyze, discuss and write critically about the elements of fiction, plot, character, theme, structure, point of view,

setting, symbolism and style as they occur in prose fiction. (Fall 2017)

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: H3 901

**ENG 105 ◊, # - World Literature**
3 credits
Introduces a broad spectrum of literature in English and in translation that may begin in antiquity and conclude in the contemporary era. May include works of fiction, poetry, and drama. Examines the uniqueness and interconnectedness of literature from a variety of worldwide traditions, both western and non-western. (formerly World Literature I (Antiquity to 1700s) (Fall 2017)

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: H3 906

**ENG 113 ◊, # - Classic American Authors Pre-Civil War**
3 credits
Broad spectrum of literature from pre-Civil War America. Includes works of fiction, poetry, and non-fiction.

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: H3 914

**ENG 114 ◊, # - Classic American Authors Civil War to the Present**
3 credits
Broad spectrum of literature from post-Civil War America, including works of fiction, poetry and drama.

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: H3 915

**ENG 170 ◊, # - Introduction to Children's Literature**
3 credits
Development of children's literature from nursery rhymes, picture books, poetry, traditional literature, realistic literature, fantasy, historical fiction, informational books and biographies. The dynamics of reading aloud, and creative techniques for presenting literature, as well as the cultural contexts that have influenced children's literature. (Fall 2017)

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: H3 918

**ENG 231 ◊, # - Introduction to Shakespeare**
3 credits
The study of William Shakespeare will include an examination of the times in which he lived, the material he has written, and a critical analysis based upon his work. Through a careful selection of his plays and related work we will gain a broad insight into the scope of Shakespearian studies, and his immense influence on intellectual and cultural discourse.

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: H3 905

**ENG 296 ◊, # - Special Topics in Literature**
3 credits
In depth study of literary topics through reading, discussion, and analytic papers. (Fall 2017)

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3

# ENT - Engineering Technology

**ENT 100 - Introduction to Manufacturing**
4 credits
Introductory course covering the core knowledge needed by anyone in a manufacturing environment, including best practices for working in a manufacturing environment. Elements of safety standards, quality control, blueprint reading, and continuous improvement processes are covered. Students are encouraged to seek out Manufacturing Skill Standards Council (MSSC) certification in Workplace Essentials & Safety and Quality, two of the four exams that make up the industry credential, Certified Production Technician (CPT). Certification exams are not part of or included in this course. Additional fees apply for taking each of the four exams that make up the CPT certification. *(course fee required)*

Lecture: 4

**ENT 103 ◊ - Introduction to Automation**
3 credits
Introduction to automation from the perspective of Kaizen/Lean Manufacturing, including the review of methods used in reducing business-process cycle times, increasing throughput, and the elimination of waste and bottlenecks, cost effectively. Major topics include understanding when and how to integrate automation in manufacturing and process control. Related topics address the role of CAD/CNC in this process, along with team group approach, software integration, product planning and handling. *(course fee required)*

Lecture: 2
Laboratory: 2

**ENT 104 ◊ - Electricity Basic Fundamentals**
3 credits
Basics of electricity and electronics, including the theory and application of Direct Current (DC) and Alternating Current (AC) electric motors, soldering/de-soldering, transformers, wiring, wire diagrams, nomenclature, assembly and disassembly of electromechanical systems, such as robots. (formerly Electricity I) (Fall 2018) *(course fee required)*

Lecture: 2
Laboratory: 2

**ENT 106 - Welding I**
4 credits
Fundamentals of oxyacetylene welding theory and practices and beginning electric welding, including arc welding and gas welding, brazing and cutting in the horizontal position. Introduction to reading and interpreting welding blueprints and working drawings used in trades and crafts. (Fall 2018) *(course fee required)*

Lecture: 3
Laboratory: 2

**ENT 107# - Welding II**
4 credits
Advanced welding theory and practice in arc welding. Students will gain experience in Metal Inert Gas (MIG) and Tungsten Arc (TIG) techniques, including an introduction to strength of weld testing basics. (Fall 2018)

Prerequisite: ENT 106
Lecture: 3
Laboratory: 2

**ENT 110 ◊ - Engineering Design Graphics/CAD**
4 credits
Engineering design and graphics, including design problems, sketching, dimensioning, tolerancing, multi-view orthographic representations, auxiliary views, section views, and working drawings. Students are required to use CAD in this course. (formerly Production Drawings & CAD) (Fall 2017) *(course fee required)*

Lecture: 3
Laboratory: 2

**ENT 111 ◊ - Metrology with Geometric Dimensioning and Tolerancing**
3 credits
Covers the application of geometric dimensioning and tolerancing, Emphasis is placed on part measurements for quality control purposes, from datum plane referencing for fit and finish, functional gaging to interpreting GD&T symbols on various types of industrial drawings such as machine tool, welding, forging and plastic parts. Instrument accuracy and GRR (gage repeatability and reproducibility) are covered with the proper use and application of precision measuring instruments. An excellent course for anyone looking to do Quality Control and/or work in an R&D testing environment. This class needs to be taken in the first or second semester of joining the Engineering Technology program. (formerly Dimensional Metrology) *(course fee required)*

Lecture: 2
Laboratory: 2

**ENT 115 ◊ - Fluid Power**
3 credits
Principles and laws of fluid power (pneumatics and hydraulics). Fluid-power symbols, circuits and components are included in the lecture and lab format. Emphasis is on student lab experiments and problems. *(course fee required)*

Lecture: 2
Laboratory: 2

**ENT 116 ◊ - Fabrication Processes**
4 credits
Fabrication processes of various mediums (metal, polymer, wood), from hand and bench operations with basic machine setups and operations on the drill press, bench grinder, lathe, vertical milling machine and vertical band saw, to various other processes in fabrication. Also included is the use of precision layout and measuring tools, as well as sharpening cutting tools. *(course fee required)*

Lecture: 3
Laboratory: 2

**ENT 117 ◊ - Computer Numeric Controls I**
4 credits
Beginning level course in Computer Numeric Controls (CNC) controlled turning and milling machinery, including setup and operations. Programming of tool selection, speeds feeds and process planning are presented. (formerly Automated Fabrication Processes I) *(course fee required)*

Lecture: 3
Laboratory: 2

**ENT 118 ◊, # - Computer Numeric Controls II**
4 credits
Advanced level course in programming of Computer Numeric Controls (CNC) controlled fabrication equipment, focused on turning and milling machinery, also including robots, as well as incorporating the use of 3D CAD software to interface with machinery. Machining of complex geometry, for mill and lathe, are covered in the course. (formerly Automated Fabrication Processes II) *(course fee required)*

Prerequisite: ENT 117◊
Lecture: 3
Laboratory: 2

**ENT 127 ◊ - Materials Manufacturing & Test Processes**
3 credits
Provides the students with an understanding on the various methods of product fabrication and the manufacturing processes for economic decision-making in manufacturing and product design. Other topics include the interrelationship among materials, their selection for use in product design and processes, and how to convert materials into finished components. (formerly ENT 210, Manufacturing Processes) *(course fee required)*

Lecture: 2
Laboratory: 2

**ENT 144 ◊, # - Sheet Metal Fabrication**
3 credits
Introduction to sheet metal fabrication and its application to engineered products, from multi-purpose receptacles to supporting members in a robotic arm assembly. Topics include types of metal stock used, pattern drafting and layout (from 3D to 2D), related mathematics, related measuring and quality control standards, various related marking and cutting tools, and metal joining processes. (formerly ACR, Sheet Metal Practices I) *(course fee required)*

Prerequisite: ENT 110◊ OR
Corequisite: with ENT 110◊
Lecture: 2
Laboratory: 2

**ENT 201# - Electrical Residential Wiring**
3 credits
Residential wiring, related areas of motors, low-voltage circuits, telephone wiring, and electrical math. Provides students with a sound background in electrical principles and practices with all content reflecting National Electrical Code (NEC). (formerly Residential Wiring: Installation & Repair) (Fall 2018) *(course fee required)*

Prerequisite: ENT 104◊
Lecture: 2
Laboratory: 2

**ENT 202# - Electricity Sustainable Applications**
4 credits
Advanced course in electricity and electronics, leading up to Programmable Logic Controls (PLC)s. Integrated and digital circuits, advanced wiring diagrams and control system, 3-phase motors, temperature controllers, and semiconductor, and sustainable energy sources. (formerly Electricity II) (Fall 2018) *(course fee required)*

Prerequisite: ENT 104◊
Lecture: 3
Laboratory: 2

**ENT 203# - Electrical Codes and Standards**
2 credits
The Electrical Codes and Standards course covers the use of the current National Electrical Code (NEC), which include NEC history, wiring methods, overcurrent protection, materials, and other related topics. (Fall 2018) *(course fee required)*

Prerequisite: ENT 104◊ and ENT 202 OR
Corequisite: with ENT 202
Lecture: 2

**ENT 204 - Programmable Logic Controllers I**
3 credits
Introduction to the principles of Programmable Logic Controllers (PLC)s and their application in industrial controls. Hardware, number systems and codes, logic, PLC programming, wiring and ladder diagrams, programming timers, programming counters, and sensors are included. (formerly PLC Fundamentals) *(course fee required)*

Lecture: 2
Laboratory: 2

**ENT 205 - Robotics I**
4 credits
Introductory course to robotics, including applications, assembly, and programming (using LabView for Lego NXT), sensors, motors, drive configurations, software tools, and visual interface. *(course fee required)*

Lecture: 3
Laboratory: 2

**ENT 206# - Programmable Logic Controllers II**
4 credits
Advanced Programmable Logic Controllers (PLC)s course that focuses on the development of machine automation and control systems. Power distribution wiring, sensors, air valve interfaces, discrete input/output circuits, flow charting, state of diagrams of machine sequences and ladder/machine logic programming. *(course fee required)*

Prerequisite: ENT 104◊ and ENT 204
Lecture: 3
Laboratory: 2

**ENT 207# - Robotics II**
4 credits
Advanced robotics course focusing on the principles and applications of industrial robots. Course topics include programming, structure, control systems, human-machine interface, and robotics in manufacturing process. Laboratories provide experience with real-time programmable Fanuc industrial robots, Allen Bradley controls and embedded software. *(course fee required)*

Prerequisite: ENT 205
Lecture: 3
Laboratory: 2

**ENT 232 ◊, # - Descriptive Geometry**
3 credits
Graphical solutions of original layouts, developments of surfaces and the ability to find true lengths of lines and sizes of a plane figure to determine a point-view of a line, using AutoCAD. Skills gained are fundamental to industries that deal in metal forming and package design. (formerly Geometric Design, Layout & Building) *(course fee required)*

Prerequisite: ENT 110◊
Lecture: 2
Laboratory: 2

**ENT 252 ◊, # - Introduction to Mechanical AutoCAD**
3 credits
An introductory level course in AutoCAD with emphasis on basic commands and proper manipulation of AutoCAD software to produce finished engineering drawings. This course needs to be taken in the first or second semester of enrolling in the Engineering Technology program. *(course fee required)*

Prerequisite: ENT 110◊ OR
Corequisite: with ENT 110◊
Lecture: 2
Laboratory: 2

**ENT 255 ◊, # - Autodesk Inventor Design & Rendering**
3 credits
Introductory-level course to Autodesk Inventor that includes basic commands and proper manipulation of the software, from basic part modeling to assembly drawings and finished/detailed engineering drawings. This course needs to be taken in the first or second semester of joining the Engineering Technology program. *(course fee required)*

Prerequisite: ENT 110◊ OR
Corequisite: with ENT 110◊
Lecture: 2
Laboratory: 2

**ENT 260 ◊, # - Jig & Fixture Design**
3 credits
Focuses on the design and application of work-holding devices and clamping methods used in manufacturing. Cutting theory, economic processes, and continuous quality improvement principles are applied in the analysis of problems. This course should be taken in the first year, second semester, of being in the Engineering Technology program. *(course fee required)*

Prerequisite: ENT 110◊
Lecture: 2
Laboratory: 2

**ENT 270 ◊, # - Machine Design**
3 credits
Emphasizes application of principles and manufacturing methods used commercially in the design of machines using continuous quality improvement principles. Students will analyze a task and design a machine composed of the elements that have been studied. Rolling bearings, gears, shaft seals, couplings and, springs will be covered. This course should be taken in the second year, second semester of being in the Engineering Technology program. *(course fee required)*

Prerequisite: ENT 260◊ OR
Corequisite: with ENT 260◊
Lecture: 2
Laboratory: 2

**ENT 280 ◊, # - Solidworks Design & Rendering**
3 credits
Introductory level course to Solidworks, including basic commands and proper manipulation of the software, from basic part modeling to assembly drawings and finished/detailed engineering drawings. *(course fee required)*

Prerequisite: ENT 110◊ OR
Corequisite: with ENT 110◊
Lecture: 2
Laboratory: 2

**ENT 290 ◊, # - Cooperative Work Experience**
2 credits
Work experience will integrate classroom theory with on-the-job training. The college will assist the student in securing employment related to the field of study and / or career interests. The college will also provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be used in searching for employment. Under the supervision of the college and the employer, the student participates in job-training experiences. The student will work a total of 240 hours. (Summer 2017)

Prerequisite: 1) completion of 12 college credit hours. Two (2) of these courses, in discipline, must be completed; 2) 2.0 Grade Point Average (C average); 3) approval of Cooperative Education office
Internship: 3

**ENT 291# - Cooperative Work Experience**
2 credits
Continuation of the first co/op course, ENT 290◊. Students have the option to continue with their previous place of employment or select a different area of concentration related to their field of study. Work experience must go beyond what was learned in the previous co/op class or consist of an entirely different learning experience. Continuous growth of the individual is emphasized. As with the previous co-op experience, the college will continue to provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be used in searching for employment. (Summer 2017)

Prerequisite: 1) ENT 290◊ with a C grade or better; 2) 2.0 Grade Point Average (C average); 3) approval of Cooperative Education office
Internship: 3

**ENT 295 ◊, # - Applied Statics**
3 credits
Force systems, resultants and equilibrium, trusses, frames, beams, and shear and moments in beams are studied. This course should be taken in the second year, second semester of being in the Engineering Technology program. *(course fee required)*

Prerequisite: ENT 260◊
Lecture: 2
Laboratory: 2

**ENT 296 ◊, # - Special Topics in Engineering Technology**
0.5 - 4 credits
Special topics, independent course for the advanced student. With instructor approval and mentoring, the student will go thru the development of a topic of special interest and related to current industry issues and will work with the instructor toward completing the project. Course may be repeatable up to 3 times when topics are different. (formerly ENT 299) *(course fee required)*

Prerequisite: 6 credit hours in all 200-level ENT prefix courses, except ENT 296◊
Lecture: 0.5-4
Laboratory: 0-8

# ENV - Environmental Science

**ENV 150 - Environmental Sciences Field Methods**
4 credits
Investigates established ecological sampling and field methods, including techniques for sampling plants, soils, air, aquatic invertebrates, small mammals, and insects. (Spring 2015) *(course fee required)*

Lecture: 2
Laboratory: 4

# EYE - Eye Care Assistant

**EYE 100 ◊ - Fundamentals of Optometric Technology**
4 credits
Principles and procedures of the optometric office including patient reception, basic ocular anatomy and pathology, and pre-examination patient evaluation. (Fall 2016) *(course fee required)*

Lecture: 2
Laboratory: 4

**EYE 110 ◊, # - Optometric Assisting Procedures**
4 credits
Theory and technique of basic optometric testing with emphasis on skill development. (Fall 2016) *(course fee required)*

Prerequisite: EYE 100◊
Lecture: 2
Laboratory: 4

# FET - Facilities Engineering Tech

**FET 101 - Indoor Air Quality**
4 credits
Comprehensive, specialized training course to equip Facility Engineers with the means to prevent most air quality problems before they happen and to mitigate those problems that do occur. Students who complete the course will be fully prepared to: operate a preventive maintenance program, conduct regular visual inspections, test and balance a system, utilize advanced techniques for environmental analysis, use a preventive maintenance log, prepare streamlined checklists and an Indoor Air Quality (IAQ) log, implement a step-by-step system to resolve occupants' complaints, adopt a practical and realistic approach to air monitoring

Lecture: 3
Laboratory: 2

**FET 105 - Commercial Heating and Cooling Systems I**
4 credits
Covers the fundamentals of air conditioning and refrigeration, including analysis, adjustment and maintenance of an operating A/C system. Topics include refrigeration physics, evaporators, compressors, condensers, and cycle controls. Students also will learn the principles of troubleshooting, system pressurization, leak testing, evacuation, dehydration and charging.

Lecture: 3
Laboratory: 2

**FET 110 - Electricity for Facilities Engineers I**
4 credits
Provides a foundation in the basics of electricity for students who will go on to study boiler operations and refrigeration. Includes a study of electricity and controls for refrigeration and air conditioning, alternating and direct current, transformers, single- and three-phase motors and controls, commercial and industrial wiring, electrical meters and testing.

Lecture: 3
Laboratory: 2

**FET 115# - Commercial Heating and Cooling Systems II**
4 credits
Expands on the principles covered in FET 105, Commercial Cooling I, with a focus on service call scenarios to improve ability to diagnose and troubleshoot problems. Includes a review of basic refrigeration systems and recognizing conditions and symptoms that signal trouble in electric, gas, oil, and hydronic heating systems. Students also will learn about humidification and filtration systems, human comfort and psychrometrics, and apply their knowledge of refrigeration to air conditioning systems. Other topics include heat pumps, high pressure, low pressure and absorption chillers, and cooling towers and pumps.

Prerequisite: FET 105
Lecture: 3
Laboratory: 2

### FET 125 - Testing and Balancing

4 credits

Designed to teach students about instruments and tools of the trade that will help them avoid some of the problems on the job with proper air balancing and testing procedures. Topics include: various types of instruments, such as rpm pressure, air velocity, temperature, humidity & hydronic instruments; air balancing / flow & pressure basics; general balancing procedures; balancing low pressure constant volume supply systems; balancing return air & toilet exhaust systems; variable air volume systems; ductwork & damper testing; balancing exhaust & residential systems; hydronic balancing / energy conservation; fan design & operation; drives / grilles, diffusers & ak areas; centrifugal pumps; charts formulas, and troubleshooting.

Lecture: 3
Laboratory: 2

### FET 135 - Pneumatic and Direct Digital Controls

4 credits

Covers basic terminology, principles, and applications of direct digital controls and pneumatic fundamentals for HVAC monitoring and control. Topics include: interfacing sensors and actuators, microprocessor fundamentals, programmable controllers programming basics, ddc programming applications, ddc automation design, air supply/pneumatic controllers, pneumatic relays, final control devices, and control applications.

Lecture: 3
Laboratory: 2

### FET 140 - Plumbing Repair and Maintenance

3 credits

Covers plumbing principles related to the repair and maintenance of plumbing products in commercial facilities. Topics include plumbing tools and equipment, safety, print reading and sketching, plumber's math, replace and repair of various plumbing systems.

Lecture: 3

### FET 201 - Understanding Plan Drawings

2 credits

Introduction to mechanical print reading providing the fundamentals in understanding the types of construction materials used, the different delivery systems available, as well as information on zoning and permitting, fireproofing, green building technology, and insight on Leadership in Energy and Environmental Design (LEED) certification. Expanded topics include construction materials, as well as interpreting drawing symbols and identifying components of a commercial building's mechanical, electrical, plumbing and fire protection systems.

Lecture: 2

### FET 210# - Electricity for Facilities Engineers II

4 credits

Continuation of FET 110, Electricity I, designed to provide training in the more advanced areas of electrical principles, practices, and maintenance in commercial and industrial applications. The training includes more advanced applications using the tools, components, and troubleshooting practices of circuits, transformers, and electric control devices commonly used in the electrical trade.

Prerequisite: FET 110
Lecture: 3
Laboratory: 2

### FET 215 - Basic Boiler Operations

4 credits

Covers the fundamentals of boiler design, construction, operation and maintenance. Includes a study of combustion of various fuels (air, coal, oil and gas) and accessories such as gauges, regulators and valves, as well as water treatment systems.

Lecture: 3
Laboratory: 2

### FET 220 - Energy Conservation

5 credits

Learn how to conduct complete energy audits and implement conservation programs. Includes calculating energy savings on HVAC, electrical and lighting systems.

Lecture: 5

### FET 225 - Facility Sustainability and Green Technology

5 credits

A comprehensive understanding of facility operations and maintenance, and how to integrate building operations with energy, efficiency, sustainability, and green technologies for new and existing facilities. (Spring 2016)

Lecture: 5

### FET 230 - Critical Systems

2 credits

Critical systems are those in which defects could have a dramatic impact on human life, the environment or assets. Such systems are expected to satisfy a variety of specific qualities including reliability, availability, security and safety. Learn to interpret reliability and resilience in order to maintain and modify critical facilities systems.

Lecture: 2

### FET 231 - Facility Systems

4 credits

Mission critical facility systems are examined to provide a deeper understanding of component integration and insight into multiple component areas that have no tolerance for unplanned failure. Simulation software allows participants to become competent decision-makers in unfamiliar situations.

Lecture: 3
Laboratory: 2

**FET 232 - Critical Systems Operations and Maintenance**
3 credits
Provides a solid foundation in workplace electrical safety. Participants learn Standard Operating Procedures (SOPs) and Maintenance Operation Protocols (MOPs) to properly address and limit exposure to liability. With this framework and an understanding of the National Fire Protection Association (NFPA) publication 70E, participants complete preventive maintenance tasks both virtually and in the lab.

Lecture: 2
Laboratory: 2

**FET 235 - Healthcare, Logistics and Compliance**
3 credits
Maintenance of healthcare systems for regulatory compliance. Standard Operating Procedures (SOPs) and Maintenance Operation Protocols (MOPs). Identify, prevent, and mitigate hazardous materials and situations.

Lecture: 3

**FET 236 - Healthcare Maintenance Systems**
3 credits
Facilities engineering principles and practices as applied to healthcare systems, including specialized equipment and mechanical systems, role of maintenance, and regulatory environment.

Lecture: 2
Laboratory: 2

**FET 237 - Healthcare Facilities Operations and Maintenance**
3 credits
Preventive and predictive maintenance strategies that reduce operating costs, improve reliability, and avoid system failures that can affect patient safety in healthcare facilities. (Fall 2016)

Lecture: 2
Laboratory: 2

**FET 240 - Mobile Maintenance**
3 credits
Study of mobile service call scenarios at satellite locations to improve the ability to diagnose and troubleshoot heating and air conditioning problems in open-air environments such as rooftops.

Lecture: 3

**FET 241 - Mobile Maintenance System Components**
3 credits
Comprehensive examination of rooftop heating and air conditioning equipment focused on system components, electrical safety standards, and mobile work practices. (Fall 2016)

Lecture: 2
Laboratory: 1

**FET 242 - Rooftop Equipment and Operations Maintenance**
3 credits
Facility engineers can extend the performance of rooftop HVAC equipment through scheduled maintenance plans for each piece of equipment. Comprehensive preventative and predictive maintenance plans are critical to equipment longevity and functionality. (Fall 2016)

Lecture: 2
Laboratory: 1

**FET 245 - Hospitality Facility Operations**
3 credits
Standard Operating Procedures (SOPs) for managing and maintaining the safety, security, and building-automation systems in hospitality establishments and how to balance them with the needs of guests. (Fall 2016)

Lecture: 3

**FET 246 - Hotel Maintenance Systems**
3 credits
Study of facilities engineering principles and practices as applied to hospitality systems. Topics include specialized equipment, mechanical systems, and the role of maintenance. (Fall 2016)

Lecture: 2
Laboratory: 1

**FET 247 - Hospitality Equipment Maintenance and Repair**
3 credits
Preventive and predictive maintenance strategies for hospitality settings that require completion of tasks during limited windows of opportunity and low occupancy periods that are highly variable. (Fall 2016)

Lecture: 2
Laboratory: 1

**FET 250 - Chief Engineer**
2 credits
Designed to introduce standards for developing, implementing and managing programs for the operation and maintenance of all equipment and physical structures. Other objectives include promoting team building techniques, optimum operating strategies, and introducing concepts to minimize expenses while maximize employee productivity and satisfaction.

Lecture: 2

# FIR - Fire Science Technology

### FIR 101 ◊ - National Incident Management System (NIMS)

1 credit

Provides an introduction to the National Incident Management System (NIMS). Also focuses on the public information systems and resource management components. Upon successful completion of this course, students will be eligible to take the qualifying examination for IS-700 from FEMA. (formerly EMP 101) (Summer 2017)

Lecture: 1

### FIR 102 ◊ - Basic ICS and Application Towards Single Resource & Initial Action Incidents

1 credit

Provides training of and resources for personnel who require a basic understanding of the Incident Command System (ICS), and the ability to operate efficiently during a incident or event within ICS. (formerly EMP 102)

Lecture: 1

### FIR 111 - Principles of Emergency Services

2 credits

Overview of fire protection and emergency services, career opportunities in fire protection related fields, culture, and history of emergency services.

Lecture: 2

### FIR 112 - Fire Behavior & Combustion

2 credits

Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

Lecture: 2

### FIR 113 - Fire Prevention

2 credits

Fundamental knowledge relating to the field of fire prevention. History and philosophy of fire prevention, organization and operation of a fire prevention bureau, use and application of codes and standards, plans review, fire inspections, fire and life safety education, and fire investigation. (formerly 180)

Lecture: 2

### FIR 114 ◊ - Building Construction for Fire Protection

3 credits

Building construction, as related to firefighter and life safety. Elements of construction and design of structures. (formerly 281, Building Construction (Fire)

Lecture: 3

### FIR 115# - Fire Protection Systems

2 credits

Design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers.

Prerequisite: FIR 111
Lecture: 2

### FIR 116 - Principles of Fire & Emergency Services Safety & Survival

2 credits

Introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. (Summer 2017)

Lecture: 2

### FIR 121# - Basic Firefighter Module A

4 credits

Module A for the Basic Operations Firefighter, per the Illinois Fire Marshal, includes orientation, fire behavior, building construction, safety, communication, self-contained breathing apparatus, extinguishers, and ropes/knots. (Fall 2018) *(course fee required)*

Corequisite: FIR 122, FIR 123, FIR 124 and FIR 125
Lecture: 3
Laboratory: 2

### FIR 122# - Basic Firefighter Module B

3 credits

Module B for the Basic Operations Firefighter per the Illinois Fire Marshal; which includes ladders, firehose/appliances, nozzles/streams, water supply, forcible entry, and ventilation. (Fall 2018) *(course fee required)*

Corequisite: FIR 121, FIR 123, FIR 124 and FIR 125
Lecture: 2
Laboratory: 2

### FIR 123# - Basic Firefighter Module C

4 credits

Module C for the Basic Operations Firefighter per the Illinois Fire Marshal; which includes fireground search/rescue, fire control, loss control/salvage, protecting evidence for origin/cause, alarm detection/suppression systems, fire prevention/education, wildland firefighting, and firefighter survival. (Fall 2018) *(course fee required)*

Corequisite: FIR 121, FIR 122, FIR 124 and FIR 125
Lecture: 2.5
Laboratory: 3

### FIR 124# - Basic Firefighter Awareness

2 credits

Awareness topics for the Basic Operations Firefighter, per the Illinois Fire Marshal; which includes technical rescue awareness, hazardous materials awareness, courage to be safe, and fire service vehicle operator. (Fall 2018)

Corequisite: FIR 121, FIR 122, FIR 123 and FIR 125
Lecture: 2

**FIR 125# - Hazardous Materials Operations**
3 credits
Hazardous materials operations, as required for the Basic Operations Firefighter, per the Illinois Fire Marshal. Topics include: recognition of hazards and how to manage them defensively, monitoring, and how to work with higher trained hazardous materials experts. (Fall 2018) *(course fee required)*

Corequisite: with FIR 121, FIR 122, FIR 123 and FIR 124
Lecture: 2.5
Laboratory: 1

**FIR 195# - Fire Service Instructor I**
3 credits
Students will gain the knowledge and ability to teach from prepared materials, which are predominantly skills oriented. Includes: communication, concepts of learning, human relations in the teaching-learning environment, methods of teaching, organizing the learning environment, records and reports, testing and evaluation, instructor's roles and responsibilities, teaching techniques, and use of instructional materials. (Fall 2018)

Prerequisite: A Basic Operations Fire Fighter or a Fire Fighter II, certified through the Illinois Fire Marshal Office. An active employee or volunteer with an organization where the job function is fire service related
Lecture: 3

**FIR 196# - Fire Service Instructor II**
3 credits
Formalized lessons from materials prepared by the instructor, including relating information from one lesson or class to the next, writing performance objectives, developing lesson plans, preparing instructional materials, constructing evaluation devices, demonstrating selected teaching methods, completing training records and reports, and identifying reference resources. (Fall 2018)

Prerequisite: A Basic Operations Fire Fighter or a Fire Fighter II & Instructor I certified through the Illinois Fire Marshal Office. An active employee or volunteer with an organization where the job function is fire service related
Lecture: 3

**FIR 202 ◊, # - Fire Service Strategy & Tactics**
3 credits
Principles of fire ground control through utilization of personnel, equipment, and extinguishing agents. (formerly 150, Fire Suppression)

Prerequisite: FIR 111, FIR 112, FIR 113, FIR 114◊, FIR 115 and FIR 116
Lecture: 3

**FIR 203 ◊, # - Fire & Emergency Services Administration**
3 credits
Organization and management of a fire and emergency services department and the relationship of government agencies to the fire service. Fire and emergency service, ethics, and leadership from the perspective of the company officer. (formerly 189, Fire Department Administration)

Prerequisite: FIR 111, FIR 112, FIR 113, FIR 114◊, FIR 115 and FIR 116
Lecture: 3

**FIR 204# - Company Fire Officer I**
3 credits
Human Resource Management & Community/Government Relations utilized by the company fire officer. (Fall 2018)

Prerequisite: an advanced technician fire fighter or a fire fighter III, certified through the Illinois Fire Marshal Office. An active employee or volunteer with an organization where the job function is fire service related
Corequisite: with FIR 205
Lecture: 3

**FIR 205# - Company Fire Officer II**
5 credits
Administration, Inspections/Investigations, Emergency Service Delivery, & Health/Safety for company fire officer's knowledge. (Fall 2018)

Prerequisite: an Advanced Technician Fire Fighter or a Fire Fighter III, certified through the Illinois Fire Marshal Office. An active employee or volunteer with an organization where the job function is fire service related
Corequisite: with FIR 204
Lecture: 5

**FIR 206# - Advanced Fire Fighter**
8 credits
Labor relations, human resource management, community/ government, administration, inspections/investigations, emergency service delivery, & health/safety for the advanced fire officer's knowledge. (Fall 2018)

Prerequisite: a Fire Officer I or a Company Fire Officer, certified through the Illinois Fire Marshal Office. An active employee or volunteer with an organization where the job function is fire service related
Lecture: 8

**FIR 210 ◊, # - Fire Investigation I**
3 credits
Proper fire scene interpretations, recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes. (formerly 190, Arson)

Prerequisite: FIR 111, FIR 112, FIR 113, FIR 114◊, FIR 115 and FIR 116
Lecture: 3

**FIR 218# - Fire Investigation II**
3 credits
Technical knowledge on the rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and court-room testimony.

Prerequisite: FIR 210◊
Lecture: 3

**FIR 221 ◊, # - Fire Protection Hydraulics & Water Supply**
3 credits
Use of water in fire protection and application of hydraulic principles to analyze and solve water supply problems. (formerly 275, Hydraulics and Fixed Installations) (Summer 2017) *(course fee required)*

Prerequisite: FIR 111, FIR 112, FIR 113, FIR 114◊, FIR 115, FIR 116, MAT 101◊ or MAT 102◊
Lecture: 2
Laboratory: 2

**FIR 231 ◊, # - Hazardous Materials Chemistry**
3 credits
Provides basic knowledge of chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services. (formerly 129, Hazardous Materials) *(course fee required)*

Prerequisite: FIR 111, FIR 112, FIR 113, FIR 114◊, FIR 115, FIR 116
Lecture: 2.5
Laboratory: 1

**FIR 241 ◊, # - Legal Aspects of Emergency Services**
3 credits
The federal, state, and local laws that regulate emergency services, review of national standards, regulations, and consensus standards. (formerly 135, Fire-Service Law)

Prerequisite: FIR 111, FIR 112, FIR 113, FIR 114◊, FIR 115 and FIR 116
Lecture: 3

**FIR 251# - Occupational Safety & Health for Emergency Services**
2 credits
Basic concepts of occupational health and safety, emergency service organizations, risk and hazard evaluation and control procedures for emergency service organizations.

Prerequisite: FIR 111, FIR 112, FIR 113, FIR 114◊, FIR 115 and FIR 116
Lecture: 2

**FIR 252# - Incident Safety Officer**
3 credits
Prepares students who will be designated by an incident commander (IC) as the incident safety officer (ISO) how to monitor the various types of incidents, including: fire, EMS, technical rescue, and hazardous materials scenes, and report the status of conditions, hazards, and risks present to the IC. (Fall 2018)

Prerequisite: an Advanced Technician Fire Fighter or a Fire Fighter III & Fire Officer I or Company Fire Officer certified through the Illinois Fire Marshal Office. An active employee or volunteer with an organization where the job function is fire service related

Lecture: 3

**FIR 261# - Fire Service Practicum**
1 credit
A supervised on-site work experience to be arranged and completed at a local fire department. A report and daily log book will be kept. (formerly Fire Service Internship) (Fall 2018)

Prerequisite: EMS 131◊; FIR 111, FIR 112, FIR 113◊, FIR 114◊, FIR 115 and FIR 116
Internship: 2

## GEO - Geography

**GEO 104 ◊ - Contemporary World Cultures**
3 credits
Geographic structure of the world; natural, human and cultural regional patterns and their interrelations; and human occupation of the natural environmental regions of the world are covered.

Lecture: 3
IAI: S4 900N

**GEO 105 ◊ - Economic Geography**
3 credits
This course provides an analysis of culturally driven economic patterns and activities resulting from human usage of the worlds spatially distributed resources. Third World developing versus high-tech urban are systems used to illustrate extremes. Characteristics of systems are defined. Global areas stressed demonstrate these cultural and economic dimensions.

Lecture: 3
IAI: S4 903N

**GEO 106 ◊ - Regional Geography of Africa and Asia**
3 credits
An introductory study of the regions of Africa and Asia, which emphasizes area and population, physical and cultural landscapes, historical developments, social and economic development and geopolitical issues.

Lecture: 3
IAI: S4 902N

**GEO 200 ◊ - Physical Geography: Weather and Climate**
4 credits
Earth's size, shape and motions: earth coordinate system: effects of sun and moon on the Earth; distribution and spatial relationships of atmospheric phenomena; and the structure of

climatic classifications. *(course fee required)*

Lecture: 3
Laboratory: 2
IAI: P1 909L

**GEO 201 ◊ - Physical Geography: Maps and Land Forms**
4 credits
This course covers the development, nature and distribution of landforms, soils, vegetation and waters of continents; spatial analysis of relationships among physical elements of the landscape. *(course fee required)*

Lecture: 3
Laboratory: 2
IAI: P1 909L

**GEO 296 ◊ - Special Topics in Geography**
1 - 4 credits
Provides exposure to a variety of topics in the field of geography. Topics vary from semester to semester and must be approved by the Dean of Arts and Sciences. Course may be repeated an additional 3 times, but not more than 8 hours may be used for a student to complete the degree requirement of a program.

Lecture: 1 - 4

# GOL - Geology

**GOL 101 ◊ - Physical Geology**
4 credits
Basic geologic principles from a physical perspective that discuss atomic combinations to form rocks, mountains, and planets. Processes that shape the Earth's landscapes, rivers, oceans, and atmosphere and the interaction between Earth systems and human society, such as natural hazards, water resources, fossil fuels, and nuclear energy. (Fall 2017) *(course fee required)*

Lecture: 2
Laboratory: 4
IAI: P1 907L

**GOL 102 ◊ - Evolution of the Earth**
4 credits
Basic geologic principles from a historical perspective of how the continents, oceans, and climate have changed over Earth's 4.5 billion year history. The co-evolution of the physical and biological systems of the Earth and the relationship between humans and the natural world: from the evolution of Homo sapiens, to the imprint of modern civilization on the geological record through changes in land-use, extinction rates, and climate. (formerly Historical Geology) (Fall 2017) *(course fee required)*

Lecture: 2
Laboratory: 4
IAI: P1 907L

**GOL 103 ◊ - Environmental Geology: Aspects of Global Hazards and Change**
3 credits
Major geological concepts, hazards and changes, their relationships to and effects on humans, and the challenges humans face in understanding and adapting to these major global changes. Concepts will be examined from various perspectives ranging from the broadest, the cosmos, to the narrowest, the anthrosphere.

Lecture: 3
IAI: P1 908

# HIA - Hospitality Industry Admin

**HIA 100 ◊ - Culinary Mathematics**
2 credits
Designed for the Hospitality Industry Administration student. Covers basic mathematical principles, such as addition, subtraction, multiplication, fractions, decimals, food cost control, portion cost, conversions, percentages, ratios, and total yields.

Lecture: 2

**HIA 101 - Knife Skills**
2 credits
Basic knife skills, including how to hold a knife properly, knife safety, knife sharpening; basic knife cuts, such as brunoise small dice, medium dice, large dice, fine julienne, julienne, battonet, paysanne, and tornee; and proper fruit and vegetable preparation. (Fall 2015)

Lecture: 1
Laboratory: 2

**HIA 110 ◊ - Introduction to Hospitality Industry**
3 credits
Hotel and Foodservice Management, focusing on career development, department structure and operations, future trends, and the human relations skills needed for success in the Hospitality Industry.

Lecture: 3

**HIA 114 ◊ - Introduction to Confectionary Technology**
3 credits
Candy production technology, including current manufacturing techniques, tour local plants and research facilities, and learn basic chocolate and sugar confectionery techniques and career opportunities in the field are covered. *(course fee required)*

Lecture: 3

**HIA 115 ◊ - Food Sanitation & Safety**
2 credits
Causes and prevention of food born illnesses and accidents. Stresses foodservice workers' responsibilities in safety and protecting public health. Course meets requirements for the Illinois Department of Public Health certification.

Lecture: 2

**HIA 117 ◊ - Beverage Management**
2 credits
Basic setup and operation of a fully-equipped beverage system. Concentration will be promotion, preparation and serving of alcoholic beverages and special party drinks. Alcohol laws and production process for distilled spirits and liquors also covered. *(course fee required)*

Laboratory: 4

**HIA 118 ◊, # - Food Service and Sanitation Refresher**
0.5 credits
This course meets the requirement of the Illinois Department of Public Health (IDPH) for the Food Service and Sanitation Manager's re-certification in the state of Illinois. Updates to the most recent Food and Drug Administration Food Code and the Illinois Food Service Sanitation Code are examined. This includes causes and prevention of food borne illness and the responsibility of the food handler in protecting the public health.

Prerequisite: HIA 115◊ or expiring Food Service and Sanitation Manager's Certificate
Lecture: 0.5

**HIA 119# - Introduction to Sommelier**
3 credits
Explore the wine regions of the world. Learn the aspects of viticulture and vinification, professional tools and equipment, wine service, wine temperatures and decanting. The court of Master Sommeliers deductive tasting format, wine list presentation, including sparkling wines, still wines and dessert wines. Also includes an overview of spirits, beers, and cocktails. *(course fee required)*

Prerequisite: students need to be at least 21 years old and show proof of age by a valid driver's license or a valid State ID or a valid Passport
Lecture: 2
Laboratory: 2

**HIA 120 ◊ - Dining Room Service**
3 credits
Students are assigned to stations or jobs in the demonstration/staff-dining area for supervised experience in operational procedures. Special emphasis is placed on dining-room salesmanship, table service, guest relations, table setting and personal appearance. *(course fee required)*

Lecture: 1
Laboratory: 4

**HIA 122 ◊ - Introduction to Convention Management**
3 credits
Meeting and convention industry: key positions in the field and their job responsibilities including meeting design, program planning, and convention and trade show planning.

Lecture: 3

**HIA 123 ◊ - Introduction to Travel & Tourism**
3 credits
Travel and tourism industry focusing on airlines, cruise lines, tour operators, travel agents, wholesalers, and business travelers. The role of travel and tourism in the Hospitality industry will be explored.

Lecture: 3

**HIA 124 ◊, # - Laminated Doughs**
2 credits
Master the techniques in mixing doughs such as Danish, Sweet Roll, Croissants, Puff Pastry and Phyllo. Create traditional breakfast pastries, strudel, baklava, Napoleons and the appropriate fillings. *(course fee required)*

Prerequisite: HIA 115◊ and HIA 128◊
Lecture: 1
Laboratory: 2

**HIA 127 ◊, # - Cake & Pastry Decoration**
3 credits
Learn the basics of Cake & Pastry Decoration. Production of Butter creams, Icing Flowers & Royal Icing Decorations. Learn to decorate and assemble Wedding Cakes. Rolled Fondant and Marzipan also discussed. *(course fee required)*

Prerequisite: HIA 115◊, HIA 128◊
Lecture: 1
Laboratory: 4

**HIA 128 ◊ - Introduction to Baking and Pastry**
3 credits
Fundamentals of baking and pastry equipment, ingredients, weights and measures, technology, preparation and storage are presented. The production of desserts, breads and rolls also is included. *(course fee required)*

Lecture: 1
Laboratory: 4

**HIA 129 ◊ - Chocolate**
2 credits
Fundamentals of working with chocolate, history, various types of chocolate, learn to temper, molded and Free-form creations, candies and creation of showpieces. *(course fee required)*

Lecture: 1
Laboratory: 2

**HIA 130 ◊ - Culinary Arts Quantity-Food Preparation I**
3 credits
Students participate in supervised back-of-the-house activities in conjunction with the faculty dining operation. Experience is provided in the following areas: basic cooking techniques, preparation of soups, sauces, entrees, vegetables, starches, and garnishes. Sanitation, recipe reviews and analysis, and a knowledge of tools and equipment included. *(course fee required)*

Laboratory: 6

**HIA 132 ◊ - Nutrition**
2 credits
Knowledge and preparation of food in accordance with sound nutrition principles and dietary guidelines. The basic fundamentals of nutrition will be studied.

Lecture: 2

**HIA 133 ◊ - Menu Writing**
2 credits
Principles and practices of planning, writing and evaluating menus, recipe costing and menu pricing. Menu design is also covered.

Lecture: 2

**HIA 134 ◊, # - Artisan Breads**
3 credits
Fundamentals of baking yeast breads, production of rolls, baguettes, bagels and hearth breads. Sourdoughs, ethnic and specialty breads emphasized. *(course fee required)*

Prerequisite: HIA 115◊, HIA 128◊
Lecture: 1
Laboratory: 4

**HIA 150 ◊ - Food Preparation Essentials & Theory**
3 credits
A systematic study of the applications of culinary techniques and principles of food preparation essential to all quantity food preparation. Emphasis is on kitchen management, culinary terminology and theory.

Lecture: 3

**HIA 202 ◊ - Ethnic Cooking-American**
1 credit
Secrets and characteristics of ethnic cooking are taught. Concentration is on the techniques of ethnic cuisine and the use of basic culinary art spices and seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. There are no prerequisites for the course, but some knowledge of basic culinary terms is expected. Some students benefit by taking HIA 150◊ prior to this class. (formerly HII) *(course fee required)*

Lecture: 1

**HIA 205 ◊ - Ethnic Cooking-Chinese**
1 credit
Secrets and characteristics of ethnic cooking are taught. Concentration is on the techniques of ethnic cuisine and the use of basic culinary art spices and seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. There are no prerequisites for the course, but some knowledge of basic culinary terms is expected. Some students benefit by taking HIA 150◊ prior to this class. (formerly HII) *(course fee required)*

Lecture: 1

**HIA 206# - Food and Wine Pairing**
3 credits
Students will learn the fine art of pairing wines with foods and prepare the dishes in our hands-on laboratory with a culinary instructor who has knowledge in both Culinary Arts and Sommelier. The student will demonstrate the ability to prepare food and pair the dish with the appropriate wine accompaniment. *(course fee required)*

Prerequisite: HIA 115◊; student must be at least 21 years of age and show proof of age by a valid driver's license or a valid State ID or a valid Passport
Lecture: 2
Laboratory: 2

**HIA 207 ◊ - Ethnic Cooking-French**
1 credit
Secrets and characteristics of ethnic cooking are taught. Concentration is on the techniques of ethnic cuisine and the use of basic culinary art spices and seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. There are no prerequisites for the course, but some knowledge of basic culinary terms is expected. Some students benefit by taking HIA 150◊ prior to this class. (formerly HII) *(course fee required)*

Lecture: 1

**HIA 208 ◊ - Ethnic Cooking-German**
1 credit
Secrets and characteristics of ethnic cooking are taught, concentrating on the techniques of ethnic cuisine and the use of basic culinary art spices, seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. Some knowledge of basic culinary terms is expected. Some may benefit by taking HIA 150◊ prior to this class. (Formerly HII) (Fall 2015) *(course fee required)*

Lecture: 1

**HIA 209 ◊ - Ethnic Cooking-Mediterranean**
1 credit
Secrets and characteristics of ethnic cooking are taught, concentrating on the techniques of ethnic cuisine and the use of basic culinary art spices, seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. Some knowledge of basic culinary terms is expected. Some may benefit by taking HIA 150◊ prior to this class. (Formerly HII) (Fall 2015) *(course fee required)*

Lecture: 1

**HIA 210 ◊ - Hotel & Motel Front Office Operations**
3 credits
Front-office procedures, equipment used, forms, personnel qualifications and steps followed from reservations to night audit. *(course fee required)*

Lecture: 3

**HIA 211 ◊ - Ethnic Cooking-Italian**
1 credit
Secrets and characteristics of ethnic cooking are taught, concentrating on the techniques of ethnic cuisine and the use of basic culinary art spices, seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. Some knowledge of basic culinary terms is expected. Some may benefit by taking HIA 150◊ prior to this class. (Formerly HII)(Fall 2015) *(course fee required)*

Lecture: 1

**HIA 212 ◊ - Ethnic Cooking-Japanese**
1 credit
Secrets and characteristics of ethnic cooking are taught, concentrating on the techniques of ethnic cuisine and the use of basic culinary art spices, seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. Some knowledge of basic culinary terms is expected. Some may benefit by taking HIA 150◊ prior to this class. (Formerly HII) (Fall 2015) *(course fee required)*

Lecture: 1

**HIA 213 ◊ - Ethnic Cooking-Mexican**
1 credit
Secrets and characteristics of ethnic cooking are reviewed in this course. Concentration is on the techniques of ethnic cuisine and the use of basic culinary art spices and seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. Knowledge of basic culinary terms is expected. Some students may benefit by taking HIA 150◊ prior to this class. (formerly HII) (Fall 2015) *(course fee required)*

Lecture: 1

**HIA 214 ◊ - Ethnic Cooking-New Orleans**
1 credit
Secrets and characteristics of ethnic cooking are taught, concentrating on the techniques of ethnic cuisine and the use of basic culinary art spices, seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. Some knowledge of basic culinary terms is expected. Some may benefit by taking HIA 150◊ prior to this class. (Formerly HII) (Fall 2015) *(course fee required)*

Lecture: 1

**HIA 215 ◊ - Housekeeping for the Hospitality Industry**
3 credits
Professional housekeeping procedures and practices, housekeeping department administration and the areas of responsibility which exist within the framework of the department.

Lecture: 3

**HIA 216 ◊ - Ethnic Cooking-Polish**
1 credit
Secrets and characteristics of ethnic cooking are taught, concentrating on the techniques of ethnic cuisine and the use of basic culinary art spices, seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. Some knowledge of basic culinary terms is expected. Some may benefit by taking HIA 150◊ prior to this class. (Formerly HII 215) (Fall 2015) *(course fee required)*

Lecture: 1

**HIA 217# - Mixology**
3 credits
A systematic study of the application of bartending techniques and principals. Students will practice the preparation of classical and fusion-style cocktails in a hands-on laboratory and will recognize equipment and technology used in a professional bar atmosphere. Customer service also will be covered. *(course fee required)*

Prerequisite: HIA 115◊; students must be at least 21 years of age. Proof of age will be validated by a driver's license, a valid State ID or a valid Passport
Lecture: 2
Laboratory: 2

**HIA 218 ◊ - Ethnic Cooking-Spanish**
1 credit
Secrets and characteristics of ethnic cooking are taught, concentrating on the techniques of ethnic cuisine and the use of basic culinary art spices, seasoning in preparation of soups, sauces, fish, poultry, meat and vegetable dishes, as well as how to apply these techniques to other food preparation. Some knowledge of basic culinary terms is expected. Some may benefit by taking HIA 150◊ prior to this class. (Formerly HII) (Fall 2015) *(course fee required)*

Lecture: 1

**HIA 225 ◊, # - Hospitality Supervision**
3 credits
Management of people in the hospitality industry emphasizing the necessary communication skills needed to motivate employees, training techniques and personal development.

Prerequisite: HIA 110◊
Lecture: 3

**HIA 227 ◊, # - Advanced Cake Decoration**
3 credits
Students will continue to explore advanced cake decorating techniques improving their skills and knowledge as a professional cake decorator. Students will learn: Marzipan work, rolled fondant, pastillage, gum paste and sugar cooking techniques. Further study of butter cream production and cake assembly also are included. *(course fee required)*

Prerequisite: HIA 127◊ and HIA 128◊
Lecture: 1
Laboratory: 4

**HIA 228 ◊, # - Specialty Baking and Pastry**
3 credits
Advanced pastries and classical desserts, which include the preparation of petite fours, cakes, cake decoration, chocolate, marzipan work and other methods of cake decorating. Also includes a summary and review of baking fundamentals. *(course fee required)*

Prerequisite: HIA 128◊
Lecture: 1
Laboratory: 4

**HIA 250 ◊ - Hospitality Marketing**
3 credits
Principles of public relations and advertising in print as well as quality evaluation of radio and TV advertising; major emphasis is on promotion and merchandising.

Lecture: 3

**HIA 255 ◊ - Culinary Arts-Garde Manger**
3 credits
Basic garde manger (cold food preparation) principles and functions and duties of the garde manger department as they relate and integrate with other kitchen operations. *(course fee required)*

Lecture: 1
Laboratory: 4

**HIA 260 ◊, # - Culinary Arts Quantity-Food Preparation II**
3 credits
Students continue to gain proficiency in food preparation while developing further expertise in more elaborate food preparation techniques. Various students assume the position of Chef, Sous Chef, Banquet Chef, etc. *(course fee required)*

Prerequisite: HIA 130◊
Laboratory: 6

**HIA 274 ◊, # - Retail Bakery Management**
4 credits
Managing a retail bakery outlet, including menu writing, food cost control, customer service, human resource management, bakery organization, inventory control and bakery production.

Prerequisite: HIA 110◊, HIA 115◊, HIA 128◊
Lecture: 1
Laboratory: 6

**HIA 276 ◊ - Food & Beverage Purchasing/Cost Control**
3 credits
Food and beverage product specifications; purveyor selection; and receiving, storage and control functions.

Lecture: 3

**HIA 277 ◊ - Catering Management**
3 credits
Aspects of planning, preparing and serving, catering functions. Students practice skill in laboratory settings in planning, preparing food and serving at special theme functions and buffet events. *(course fee required)*

Lecture: 1
Laboratory: 4

**HIA 280 ◊, # - Introduction to Wines & Spirits**
3 credits
Alcoholic beverage classifications, alcoholic beverage laws, wine regulations, purchasing and control, promotion and service and wine tasting of selected wines. *(course fee required)*

Prerequisite: minimum age 21
Lecture: 3

**HIA 285 ◊ - Hospitality Industry Law**
3 credits
Legal aspects of the hotel, food and travel business; guests and innkeepers; rights and responsibilities; common crimes against innkeepers; labor problems; and analysis of union contracts.

Lecture: 3

**HIA 290 ◊, # - Dining Room Management**
3 credits
Students learn by managing the laboratory dining facility while observed and supervised by the instructor. Quality-service standards, supervising and training of dining room staff, labor cost and revenue control. Students manage a laboratory dining facility under instructor's observation and supervision. (Fall 2015) *(course fee required)*

Prerequisite: HIA 120◊
Lecture: 1
Laboratory: 4

**HIA 295 ◊, # - Cooperative Work Experience**
2 credits
Work experience will integrate classroom theory with on-the-job training. The college will assist the student in securing employment related to the field of study and / or career interests. Under the supervision of the college and the employer, the student participates in job-training experiences.

Prerequisite: 1) completion of 12 college credit hours. Two (2) of these courses in discipline must be completed; 2) 2.0 Grade Point Average (C average); 3) approval of Cooperative Education Office
Internship: 3

**HIA 296 ◊ - Special Topics in the Hospitality Industry**
0.5 - 3 credits
Selected topics in the areas of hospitality industry are provided. Topics vary from semester to semester and information will be available during registration. Courses may be repeated when topics are different. A maximum of 6 credit hours may be used for graduation. *(course may apply depending on the topic)*

Lecture: 0 – 3
Laboratory: 0 - 6

# HIS - History

**HIS 121 ◊ - History of Western Civilization I**
3 credits
Learn about the social, political, cultural and intellectual life of the Western World from early times to the end of the 17th century.

Lecture: 3
IAI: S2 902

**HIS 122 ◊ - History of Western Civilization II**
3 credits
Continuation of HIS 121◊, this course covers the time period from the last quarter of the 17th century to the present.

Lecture: 3
IAI: S2 903

**HIS 141 ◊ - World History I**
3 credits
Cultural, political and economic history of the world's cultures to the 16th century. Examines the cultural achievements of the major cultures and change over time. The course employs a global and comparative perspective.

Lecture: 3
IAI: S2 912N

**HIS 142 ◊ - World History II**
3 credits
Cultural, political and economic history of the world's cultures from the 16th century. Examines the cultural achievements of the major cultures and changes over time. The course employs a global and comparative perspective.

Lecture: 3
IAI: S2 913N

**HIS 151 ◊ - History of the United States to 1877**
3 credits
Political, social, economic and cultural forces that have shaped American history from colonial times through the Reconstruction era are presented.

Lecture: 3
IAI: S2 900

**HIS 152 ◊ - History of the United States Since 1877**
3 credits
This course is a continuation of history of the United States not covered in HIS 151◊.

Lecture: 3
IAI: S2 901

**HIS 155 ◊ - History of the Afro-American in the United States**
3 credits
A general survey of Afro-American history, including African origins, the middle passage, abolition, the Civil War, Reconstruction, the Era of Jim Crow, The 20th Century Civil Rights Movement, and De Facto discrimination. Emphasis is also placed upon the cultural, scientific, religious, literary, social, and political contributions of outstanding Afro-Americans.

Lecture: 3

**HIS 156 ◊ - African History**
3 credits
History of Africa from ancient times to the present. Emphasizes the nature of African culture. Identifies leading kingdoms and nations in ancient and modern times. Highlights the impact of imperialism, nationalism, and independence upon the history of Africa.

Lecture: 3
IAI: S2 906N

**HIS 171 ◊ - History of Latin America I**
3 credits
Political, social and economic history of principal Latin American nations, including the origins and development of its peoples and cultures to the period of independence.

Lecture: 3
IAI: S2 920N

**HIS 172 ◊ - History of Latin America II**
3 credits
Political, social and economic history of principal Latin American nations, including the origins and development of its peoples and cultures from the period of independence to the present.

Lecture: 3
IAI: S2 920N

**HIS 191 ◊ - History of Asia and the Pacific I**
3 credits
Cultural, political and economic history of Asia and the Pacific region including the origin and development of its peoples and cultures to 1600.

Lecture: 3
IAI: S2 920N

**HIS 192 ◊ - History of Asia and the Pacific II**
3 credits
Cultural, political and economic history of Asia and the Pacific region including the origin and development of its peoples and cultures from 1600.

Lecture: 3
IAI: S2 920N

**HIS 210 ◊, # - U.S. Civil War and Reconstruction**
3 credits
An examination of the period of Civil War and Reconstruction in the United States, which highlights changes in political, cultural (including the role of women), racial, technological, economic and military issues throughout this period.

Prerequisite: Reading assessment test score of 4; or a grade of C or better in RHT 085 or RHT 086
Lecture: 3

**HIS 296 ◊ - Special Topics in History**
1 - 4 credits
Provides exposure to a variety of topics in the field of history. Topics vary from semester to semester and must be approved by the Dean of Arts and Sciences. Course may be repeated an additional 3 times, but not more than 8 hours may be used for a student to complete the degree requirement of a program.

Lecture: 1 - 4

# HRT - Horticulture

**HRT 100 ◊ - Introduction to Horticulture**
4 credits
Covers the principles and practices in the development, production and use of horticulture crops, Including classification, taxonomy, structure, growth, development, soils, fertilizers, greenhouse, turf, pest management, and environmental influences of horticulture crops. All areas of Horticulture will be introduced to the student. Discussion on careers in the Green Industry will be explored. (formerly ORN 110, Basic Ornamental Horticulture) *(course fee required)*

Lecture: 3
Laboratory: 2
IAI: AG 905

**HRT 114 ◊ - Floral Design & Display I**
4 credits
Introductory course in the art of floral design. Basic techniques including taping, wiring, corsage construction, and design mechanics will be explored. The history of floral design and its application to the present floral design industry is discussed. Course emphasis is on basic design principals/elements of fresh, dried, and all other seasonal items used in the floral industry. Fresh flower handling and processing also will be discussed. (formerly ORN) *(course fee required)*

Lecture: 2
Laboratory: 4

**HRT 125 ◊ - Plants and Society**
4 credits
Exploration of the connection between plants and society. The growth, development, diversity, classification, plant breeding, origin, use and impact on our society will be explained. The concepts of identification, use, planting and planning will be explored. (formerly ORN)

Lecture: 4
IAI: L1 901

**HRT 126 ◊ - Plant Propagation/Greenhouse Operations**
3 credits
Basic principles in the propagation, care and maintenance of woody and herbaceous plants are examined. Discussion on the growth processes, of plants, plant structure and function, propagation practices of both woody and herbaceous plants, fertilization practices, media and fertility, propagation structures, plant problem diagnosis and treatment, selection, planting, and general greenhouse operations. Sustainability in plant propagation will be discussed. (formerly Arboriculture/Plant Propagation) *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 127 ◊ - Entomology: Insects, People and Plants**
3 credits
Introduces the student to the world of insects, their biology, identification and structure, life cycle, hosts and damages. Control of insects by integrated pest management practices will be explored. Discussion of the impact of insects on the environment also will be emphasized including sustainable practices. Prepares students to take the Illinois Pesticide exam. (formerly Entomology: Insects and People) *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 128 ◊ - Plant Pathology**
3 credits
The basic principles of plant diseases, life cycles, host plants, symptoms, diagnosis and their control will be studied, along with the impact of diseases on the environment. Selection of control practices, such as resistant plants, cultural prevention measures, and use of pesticides also will be presented. Includes discussion on sustainability practices in pathology. Prepares students to take the Illinois Pesticide License exam. (formerly Pathology and Plant Diseases) *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 134 ◊, # - Floral Design & Display II**
4 credits
Builds on the principals learned in HRT 114◊. Design principles and elements are discussed and practiced in detail. More advanced design styles and techniques are explored. Complete knowledge of varieties of cut flowers offered at the wholesale

level, and their application to various designs will be discussed. *(course fee required)*

Prerequisite: HRT 114◊
Lecture: 2
Laboratory: 4

**HRT 135 ◊ - Soils and Fertilizers**
3 credits
Includes discussion on soil formation, types, classes and groups of soil. The effects of water, nutrients, and soil erosion and its control/management also will be covered. Examines the relationships of soils, artificial growing media, fertilizers and the selection and use of fertilizers to meet plant nutritional requirements. Includes discussion on sustainable practices in soils. *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 140 ◊ - Landscape Construction and Maintenance**
4 credits
Principles and practices of proper grounds maintenance and care of woody plants, herbaceous flowers, groundcovers, vines, lawns and other landscape features. Construction aspects needed to accomplish the landscape construction project and related business principles are discussed. Arboriculture techniques, including pruning, woody plant propagation, and woody plant care are discussed. *(course fee required)*

Lecture: 2
Laboratory: 4

**HRT 145 ◊ - Deciduous Plant Identification**
3 credits
Focuses on the cultural, maintenance, propagation, and identification characteristics of selected deciduous trees and shrubs common to northern Illinois. Use of plant keys and deciduous landscape plants in the home landscape will be discussed. (formerly Landscape Plant Identification I) *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 154 ◊, # - Horticulture Internship**
3 credits
On-the-job training designed to prepare students to enter an occupation in horticulture. Duties are carefully supervised to provide a positive learning experience. Students must work a minimum of 240 hours during the academic term at an approved work site and must also attend and participate in a one-hour meeting each week with coordinator and other enrolled students. (formerly ORN, Ornamental Horticulture Internship A)

Prerequisite: HRT coordinator consent
Lecture: 1
Internship: 2

**HRT 225 ◊ - Evergreens, Vines, Groundcovers**
3 credits
Focuses on the identification, maintenance, culture and propagation of selected broadleaf evergreens, needle evergreens, woody groundcovers, and vines common to northern Illinois. Use of plants in home landscapes will be discussed. (formerly Landscape Plant Identification II) *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 240 ◊ - Landscape Design**
4 credits
Covers the principles of residential landscape design and includes basic graphic presentation, site measurements, landscape symbols, layouts, labeling, and proper placement of plants into a design. Concepts of balance, form, harmony, and focal point will be emphasized. Basic hardscape design practices also will be covered. Discussion will include topics on designing a sustainable landscape. (formerly Landscape Design I) *(course fee required)*

Lecture: 2
Laboratory: 4

**HRT 244 ◊, # - Specialty Floral Design**
3 credits
Emphasizes wedding floral pieces and special events. Students will create a variety of bridal and church bouquets using various techniques. Emphasis will be placed on conducting wedding consultations and completing the entire wedding scenario. Special emphasis also will be placed on creating floral pieces for special events, such as banquets, etc. *(course fee required)*

Prerequisite: HRT 114◊
Lecture: 2
Laboratory: 2

**HRT 250 ◊, # - Flower Shop Operation**
4 credits
Covers flower shop operations including merchandising, management techniques, business principles, techniques used in operating a shop, equipment needed, and purchasing of materials. Securing material and delivery, comparing retail & wholesale and the connection to big retail outlets also will be covered. Special emphasis on customer relations and services will be explored. (formerly ORN) *(course fee required)*

Prerequisite: HRT 114◊
Lecture: 2
Laboratory: 4

**HRT 261 ◊ - Herbaceous Ornamental Plants**
3 credits
Covers the identification, culture, and use of selected herbaceous plants, including annuals, perennials, grasses, herbaceous vines and groundcovers, bulbs, and wildflowers. Designing with herbaceous plants also will be discussed. (formerly Annuals and Perennials) *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 265 ◊ - Vegetable and Herb Gardening**
3 credits
Covers the identification, use and culture of selected vegetables and herbs commonly grown in northern Illinois. Use of vegetable and herb gardens in smaller landscapes, as well as larger home landscapes will be discussed. Practical skills in growing and planting vegetables and herbs and their use in culinary pursuits will be explored. Designing home landscapes with these plants also will be covered. (formerly Wildflowers, Bulbs, Vegetables and Herbs) *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 270 - Sustainable Landscape Practices**
3 credits
Background in sustainable landscape features and practices, such as soil and water conservation; appropriate plant selections, use of fertilizers and pesticides with an emphasis on organic materials; reduced use of fossil fuels; infrastructure enhancements such as green roofs and xeriscaping. Also common landscape practices that have an adverse effect on the environment and solutions to these situations. *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 275 - Innovations in Sustainability**
4 credits
For those seeking green careers in horticulture, agriculture, building design, alternative energy systems and bio-technology. Sustainable systems approach to built environment, including review of current systems and conversion to sustainable systems that mitigate climate change and provide healthy urban environments. *(course fee required)*

Lecture: 2
Laboratory: 4

**HRT 282 ◊ - Interior Plantscaping/Tropical Plants**
3 credits
Identification, culture, an use of tropical house plants. Exotic plants cultivated in botanic gardens and conservatories are covered. Emphasis on the selection of these plants in planning interior decoration and indoor landscaping will be explored. Terrarium, dish gardens and Bonsai are covered. Course is offered only in the fall of odd numbered years, starting in the fall, 2011. (formerly Interior Plantscaping/House Plants) *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 285 ◊ - Turf and Lawn Management**
3 credits
A study of types and varieties of turf grasses, their culture and maintenance. Lawn and turf establishment and maintenance are discussed. Fertilization, pests and controls, equipment, turf for residences and commercial areas of turf also will be covered. Golf course maintenance will be explained. *(course fee required)*

Lecture: 2
Laboratory: 2

**HRT 295 ◊, # - Landscape CAD and Graphics**
4 credits
Covers advanced practices of landscape design. Included will be concepts in computer assisted drafting skills, inking and color rendering, techniques and utilization of landscape plantings and hardscapes features. Emphasizes practical application of software and hardware to develop working drawings for the landscape. (formerly Landscape Design II) *(course fee required)*

Prerequisite: HRT 240◊
Lecture: 2
Laboratory: 4

**HRT 296 ◊, # - Special Topics in Horticulture**
0.5 - 3 credits
Selected topics in the areas of contemporary Horticulture may vary from semester to semester and information will be available during registration in the Horticulture program office. Course may be repeated up to three times when content is different, but only six hours can be used to meet graduation requirements. *(course fee required)*

Prerequisite: consent of coordinator
Lecture: 0.5 – 3
Laboratory: 0 - 6

## HTH - Health Education

**HTH 104 ◊ - Science of Personal Health**
2 credits
How individuals interact with their environment and how those interactions impact holistic, personal health. Various dimensions of health are examined, including physical, emotional, social, mental, spiritual, occupational, and environmental. Preventative and management techniques for many illnesses and diseases. (Spring 2016)

Lecture: 2

**HTH 110 ◊ - Public Health and Wellness**
3 credits
Introduction to the concepts and principles of public health and wellness with a concentration on preventative purposes of public health laws and official health agencies, environmental origins of disease in urban, suburban, rural, and underdeveloped communities, and health and wellness programs in society.

Lecture: 3

**HTH 120 ◊ - Nutrition Science**
3 credits
The science of nutrition and its relationship to health and disease. Scientific inquiry of the major nutrients: proteins, carbohydrates, fats, vitamins, minerals, and water, and their effects on human physiology and development from early childhood through advanced years. Technological analysis of

metabolism and body composition are incorporated. Cultural, social, and psychological influences on food selection and global health are also studied. Physiological processes related to the digestion and absorption of nutrients, scientific literacy of nutritional concepts to promote human development, health, and disease prevention are emphasized. (Spring 2016)

Lecture: 3

### HTH 150 ◊ - Complementary and Alternative Medicine

3 credits

An overview of Complementary and Alternative Medicine (CAM). Proven alternatives to established medical practices are examined using the natural, mind/body approaches to healing and preventative wellness. (formerly Health Modern Life)

Lecture: 3

### HTH 175 ◊ - Drug & Alcohol Education

3 credits

Introduction to the use, misuse, and abuse of drugs. The implication of drugs on the psychological, physical, and social functioning of humans. Identification of various classes of drugs, including illegal, prescription, Over The Counter (OTC), and supplemental drugs.

Lecture: 3

### HTH 202 ◊ - Culture and Food

3 credits

Investigation of the cultural anthropological concepts of food, using a multidisciplinary and holistic approach. The foods of various cultures throughout the world are investigated from past to present. Factors which impact culture and food are explored, including social organization, geography, technology, economics, religion, language, family customs, gender, race, religion, politics, globalization, and climate change. How food choices impact survival of the human species, as well as concurrent health and wellness, are covered. (Fall 2017)

Lecture: 3

### HTH 210 ◊ - Lifestyle for Wellness

3 credits

Personal life-style behaviors that impact health and fitness. Students will participate in organized physical fitness, stress reduction, and nutritional activities each week to improve or change behaviors. A lifestyle and physical fitness assessment will be administered at the beginning and end of the course. *(course fee required)*

Lecture: 2
Laboratory: 2

### HTH 215 ◊ - Lifestyle Diseases

3 credits

Basic causes and mechanisms of lifestyle-related diseases, including symptomatology and appropriate pharmacologic treatment. Cancer, diabetes, cardiovascular, pulmonary, and orthopedic conditions. (Spring 2016)

Lecture: 3

### HTH 216 ◊, # - Wellness and Exercise for Special Populations

3 credits

Students become informed about the wellness and lifestyle components necessary to train a wide variety of diseased population and will gain pertinent information, as to how the presence of several common diseases can effect exercise performance, and how planned and structured exercise can improve the diseases. *(course fee required)*

Prerequisite: completion of Triton College Personal Training Certificate, or other recognized certification
Lecture: 3

### HTH 220 ◊ - Athletic Training Techniques

3 credits

Principles of emergency care, initial treatment, and rehabilitation of injuries in athletes and active individuals. Primary responsibilities of athletic trainers and occupational duties. (Spring 2016) *(course fee required)*

Lecture: 2
Laboratory: 2

### HTH 221 ◊ - Sport Specific Training and Rehabilitation

3 credits

Principles and theories of sport rehabilitation and athletic training. Specific sports, including conditioning, periodization training, and rehabilitation from sport injuries. Modalities, progressive resistive exercises, flexibility training, and sport specific drills. (Spring 2016) *(course fee required)*

Lecture: 2
Laboratory: 2

### HTH 281 ◊ - First Aid & CPR

2 credits

Fundamentals of first aid, CPR (Cardiopulmonary resuscitation) and the use of an Automated External Defibrillator (AED). Successful completion of course requirements can earn students the American Heart Association Heartsaver First Aid and Basic Life Support (BLS) for Healthcare Provider certification. (Fall 2017) *(course fee required)*

Lecture: 1
Laboratory: 2

### HTH 296 ◊ - Special Topics in Health and Wellness

0.5 - 4 credits

Selected topics in the area of health and wellness. Topics will vary from semester to semester. Topics will be available during registration. May be repeated up to three times, for a maximum of nine credits, when content is different. (Spring 2016) *(course fee may apply depending on topic)*

Lecture: 0.5 – 4
Laboratory: 0 - 8

# HUM - Humanities

### HUM 101 ◊ - The Popular Arts

3 credits

A study of contemporary culture, especially popular culture, which concerns art forms produced for the mass audience and presented through the mass media. The emphasis in this course is on the print media. The central question for this course is the question of values.

Lecture: 3

### HUM 102 ◊ - Mass Media and Culture

3 credits

Contemporary culture, especially popular culture, which concerns art forms produced for the mass audience and presented through the mass media. Emphasis is on the electronic media: film and television. The central question for the course is the question of values.

Lecture: 3

### HUM 104 ◊ - Humanities Through the Arts

3 credits

An interdisciplinary survey of art, music, literature and philosophy and their relation to the humanities.

Lecture: 3
IAI: HF 900

### HUM 105 ◊ - Humanities Through the Arts II

3 credits

This course is a continuation and further elaboration of the themes and genres of the Humanities through selected works of art, music, literature, philosophy, and drama, originally investigated in HUM 104◊. The course is a thematic- or genre-based interdisciplinary study of selected works of art, music, literature and philosophy. Humanities 105 will introduce new themes and genres not covered in HUM 104◊. The courses may be taken in either order.

Lecture: 3

### HUM 120 ◊ - Humanities: The Worker in America

1 credit

American work ethic and its influence on the individual, the family and society through writings of selected contemporary authors such as Henry Ford, Andrew Carnegie, Upton Sinclair and John Steinbeck are discussed.

Lecture: 1

### HUM 122 ◊ - Humanities: Modern Architecture

1 credit

Review the development of the skyscraper, which originated in Chicago, the birthplace of modern architecture.

Lecture: 1

### HUM 124 ◊ - Professional Ethics

1 credit

Analyze and express basic tenets of an ethical and moral philosophy with special regard to their impact on professional careers. The relationship between ethical systems and various professional groups and organizations is examined through the lens of specific and current topics, including the rights and responsibilities of employers and employees.

Lecture: 1

### HUM 125 ◊ - The Individual & Technology

1 credit

For technologically oriented students, the course is designed to illustrate how science and the humanities are interdependent socially, politically and philosophically. Such topics as man, the tool user, the atom and cloning are discussed.

Lecture: 1

### HUM 126 ◊ - Modern Business Ethics

1 credit

Analyze and express basic tenets of an ethical and moral philosophy with particular emphasis on their relationship to the business world. Understand the link between ethics and business organizations, with special regard to current trends in business, through the use of topical discussions of current events, such as environmental concerns and social responsibility of business.

Lecture: 1

### HUM 151 ◊ - Great Books of the West I

3 credits

Reading and analysis of representative masterpieces from a variety of nationalities and epochs. Focuses primarily upon texts of the Western tradition composed between Antiquity and the Renaissance. (IAI: H3 906 [Western/World Literature in Translation I])

Lecture: 3
IAI: H3 906

### HUM 152 ◊ - Great Books of the West II

3 credits

Reading and analysis of representative masterpieces from a variety of nationalities and epochs. Focuses primarily upon texts of the Western tradition composed between the Renaissance and the present. (IAI: H3 907 [Western/World Literature in Translation II])

Lecture: 3
IAI: H3 907

### HUM 165 ◊ - Introduction to the Latin American Experience

3 credits

The history of the intellectual and cultural development of the Latin America, this course will examine the origins of this non-western culture beginning with pre-Colombian civilizations and continue into contemporary Latin America. Adaptations to and influence on Western culture in political, social and economic development will also be discussed.

Lecture: 3
IAI: H2 903N

**HUM 170 ◊, # - Introduction to Women's and Gender Studies**
3 credits
Constructions of masculinity and femininity, as well as how gender is influenced by race, class, culture, and sexuality through interdisciplinary study of art, music, literature, history, architecture, and philosophy. Fundamental arguments, theories and histories of women's and gender studies through an engagement of images, texts and film. (Fall 2017)

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: HF 907D

**HUM 296 ◊ - Special Topics in Humanities**
1 - 4 credits
This course provides and interdisciplinary exposure to various aspects of the humanities through readings, discussion, lecture, guided research and field trips. Topics vary from semester to semester. Topics must be approved by the Dean of the School of Arts and Sciences. Course may be repeated an additional 3 times, but not more than 8 hours may be used for a student to complete the degree requirement of a program.

Lecture: 1 - 4

**HUM 299 ◊, # - Scholars Program Seminar**
1 credit
Composed of three components: readings and discussions, outside learning activities including service learning, and sessions devoted to information regarding preparation for transfer to a four-year institution. Course is repeatable up to three times when topics are different for a maximum of 4 credits that may be used toward graduation. (Spring 2016)

Prerequisite: Scholars Program member
Lecture: 1

# IBC - Independent Building Contract

**IBC 100 - Introduction to Independent Building Contracting**
1 credit
Introduction to the field of independent building contracting. Small business practices, residential construction techniques including: OSHA, print reading, wood construction, finishing, electrical, plumbing, and cost estimating are covered. *(course fee required)*

Lecture: 1

**IBC 120# - Exterior Finishes**
3 credits
Hands-on preparation of exterior surfaces and installation of exterior wall and roof coverings, including installation of siding, veneer stone, soffit and fascia materials, as well as various types of roofing coverings used in residential applications. *(course fee required)*

Prerequisite: COT 106
Lecture: 1
Laboratory: 4

**IBC 201# - Professional Practice IBC**
3 credits
A seminar featuring short, problem-based projects geared toward an understanding of the best professional practices required for a successful independent building contractor business, including a variety of specialized activities that commonly occur inside a building contractor's office, such as working with clients, subcontractors and local governments, as well as customer service.

Prerequisite: IBC 100
Lecture: 3

**IBC 230# - Interior Preparation: Paints, Wallpaper**
3 credits
Preparation and installation of wall finishes in residential construction. Wall finishing, including paint finishes, wall paper and faux finishes will be covered. *(course fee required)*

Prerequisite: COT 106
Lecture: 1
Laboratory: 4

**IBC 250# - Integrated Sustainable Construction Practices**
4 credits
Synthesizes the entire coursework from the degree through a comprehensive capstone project where construction, architecture, sustainability, engineering and business practices are applied. *(course fee required)*

Prerequisite: BUS 136◊, ENT 201, COT 210, IBC 230
Lecture: 2
Laboratory: 4

# IDS - Interdisciplinary Study

**IDS 101 ◊ - The Arts in Western Culture I**
3 credits
A chronologically based interdisciplinary survey of significant literary, philosophical, visual, architectural, theatrical, musical, and other performance-based artistic expressions of Western culture from prehistory to the Renaissance.

Lecture: 3
IAI: HF 902

**IDS 102 ◊ - The Arts in Western Culture II**
3 credits
Second semester completion of a chronologically based interdisciplinary survey of the significant intellectual, literary, philosophical, visual, musical and other performance-based artistic expressions from the major epochs of Western culture, from the Renaissance to the present. The course may stand on its own, and a student may take either course in the sequence.

Lecture: 3
IAI: HF 903

# IND - Independent Study

### IND 199 ◊, # - Independent Study

1 - 4 credits

This is a variable-credit, independent-study course, which may be repeated for up to four credits. The student prepares a proposal with an instructor and submits it for approval to the department chairperson and area dean. Independent study cannot replace a regular course.

Prerequisite: satisfactory completion of 15 semester hours of credit
Lecture: 1 - 4

# INT - Interior Design

### INT 116 - Color for Interiors

3 credits

Study of color theories and their application to interior design. *(course fee required)*

Lecture: 1
Laboratory: 3

### INT 205 - Computers for Kitchen and Bath Design

3 credits

20-20 Design CAD software applications for kitchen and bath design.

Lecture: 2
Laboratory: 2

# ITL - Italian

### ITL 101 ◊ - Elementary Italian I

4 credits

This first semester of Italian is designed to allow students to develop basic oral comprehension and speaking skills. Along with some fundamental grammatical concepts, appreciation of Italian culture as reflected and the language is stressed. Lecture: 4 hours (course fee required) *(course fee required)*

Lecture: 4

### ITL 102 ◊, # - Elementary Italian II

4 credits

Continuation of ITL 101, this course places more emphasis on conversation and the use of the past tense, vocabulary building, short compositions and discussions of recent developments in modern Italy. *(course fee required)*

Prerequisite: ITL 101 or satisfactory placement test scores
Lecture: 4

### ITL 103 ◊, # - Intermediate Italian I

4 credits

This course is a continued study of grammatical concepts through written and oral practice. Students will read topics relating to human and cultural interests and compose short papers to foster growth in linguistic proficiency. *(course fee required)*

Prerequisite: ITL 102◊ or satisfactory placement test scores
Lecture: 4

### ITL 104 ◊, # - Intermediate Italian II

4 credits

Prepares high-intermediate students for cross-cultural communication through the study of language through reading, writing, listening, speaking and culture; provides connections to other disciplines through the study of Italian and develops awareness of Italian culture and art. (Fall 2015) *(course fee required)*

Prerequisite: ITL 103◊ with a grade of C or better
Lecture: 4
IAI: H1 900

### ITL 113 ◊, # - Italian Composition & Conversation I

2 credits

Designed to develop the student's ability to communicate effectively in Italian, both in oral and written form, this course places emphasis on listening comprehension and speaking proficiency. *(course fee required)*

Prerequisite: One year of college Italian; may be taken as a
Corequisite: with ITL 103◊ or ITL 104◊
Lecture: 2

### ITL 114 ◊, # - Italian Composition & Conversation II

2 credits

Continuation of ITL 113◊, this course is designed to improve pronunciation, listening comprehension and speaking ability. Weekly compositions are done to develop better written self-expression. *(course fee required)*

Prerequisite: One year of college Italian; may be taken as a
Corequisite: with ITL 103◊ or ITL 104◊
Lecture: 2

### ITL 118 ◊, # - Study-Travel in Italy

4 credits

This course is an intensive study of Italian language and culture in Italy. Listening, speaking, reading and writing are covered extensively. Students may elect to take the course for two credits or for four credits. A research project on an Italian topic is required for four hours of credit.

Prerequisite: ITL 102◊
Lecture: 4

# MAT - Mathematics

### MAT 045# - Arithmetic and Pre-Algebra

4 credits

Covers the skills necessary to be successful in future math classes including, competency in whole numbers, fractions, decimals, order of operations, ratio and proportion, percent topics, introductory signed number manipulations, and an introduction to basic equation solving. Special emphasis will be placed on applications of course material. (formerly Pre-algebra)

Prerequisite: must meet all current college Math requirements for MAT 045 placement
Lecture: 4

### MAT 055# - Algebra & Geometry I

4 credits

The study of properties of real numbers, solving first degree equations and inequalities, formulas, problem solving, the Cartesian coordinate system, operations with polynomials, and basic geometry. Cannot receive credit for both MAT 045 and MAT 055.

Prerequisite: completion of MAT 045 with a C or better or must meet all current college Math requirements for MAT 055 placement
Lecture: 4

### MAT 080# - Preparation for General Education Mathematics

5 credits

A non-transferable course that covers topics from intermediate algebra that is needed to be successful in MAT 101◊, MAT 102◊ and MAT 170◊. The topics include numerical reasoning, unit conversions, linear equations/inequalities, models of growth, and data representation. Focus is on algebraic reasoning and graphical analysis using linear and non-linear functions, including an emphasis on modeling, interpretation, and problem solving. The goal of this course is to provide students with opportunities for problem solving. All of the listed topics should provide the necessary foundation for students to engage in mathematical modeling and problem solving. (Fall 2016)

Prerequisite: completion of MAT 045 with a C or better or must meet all current college Math requirements for MAT 080 placement
Lecture: 5

### MAT 085# - Algebra & Geometry II

5 credits

Concepts in factoring, rational expressions and equations, functions, relations, systems of equations, inequalities, radical expressions and equations, quadratic equations, special right triangles and Pythagorean Theorem. *(course fee required)*

Prerequisite: completion of MAT 055 with a C or better or must meet all current college Math requirements for MAT 085 placement
Lecture: 5

### MAT 096# - Algebra/Geometry Review

5 credits

Examine elementary and intermediate-level algebra concepts, along with plane geometry, signed numbers, factoring, linear equations, graphs, exponents, operations on rational expressions, graphing linear equations, solving fractional and quadratic equations, plane Euclidean geometry studying lines, angles, circles, polygons, and their congruence. Recommended for highly motivated students wanting a refresher course of previously learned material. Taught as a self-paced class in a computer laboratory. Instructor guidance is provided. Course may be repeated up to two times, picking up where they left off. Note: Credit will not be given for both MAT 096 and MAT 055, and/or MAT 085.

Prerequisite: must meet all current college Math requirements for MAT 096 placement
Lecture: 5

### MAT 101 ◊, # - Quantitative Literacy

3 credits

Intended for students in areas of study not requiring calculus or advanced mathematics. Applications of ratio and measurement to real-world situations, including percentages, linear and exponential modeling with a focus on environmental applications, and basic descriptive statistics.

Prerequisite: Reading and Writing: must meet all current Reading and Writing requirements for RHT 101◊ placement AND MAT 080 or MAT 085 or MAT 096 or MAT 103◊ with a grade of C or better, or required Math placement test score, or other placement options (qualifying ACT or SAT scores)
Lecture: 3
IAI: M1 901

### MAT 102 ◊, # - Liberal Arts Mathematics

3 credits

Intended for students in areas of study not requiring calculus or advanced mathematics. Topics will be selected from sets, logic, consumer mathematics, numeral systems, geometry in nature and in daily life, introductory statistics, and introductory probability.

Prerequisite: Reading and Writing: must meet all current reading and writing requirements for RHT 101◊ placement AND MAT 080 or MAT 085 or MAT 096 or MAT 103◊ with a grade of C or better, or required Math placement test score, or other placement options (any qualifying ACT or SAT scores)
Lecture: 3
IAI: M1 904

### MAT 103 ◊, # - Applied Intermediate Algebra

3 credits

Intermediate-level course in algebra, including topics in exponential and radical manipulation, functions, relations, rational expressions and solving fraction and quadratic equations. Heavy emphasis is on applications rather than theory. May not be used to fulfill the mathematics requirement in the AS or AA degree.

Prerequisite: MAT 055 (minimum grade of C) or qualifying score on placement test
Lecture: 3

**MAT 110 ◊, # - College Algebra**
5 credits
Examines the operations on real numbers, factoring, polynomials, rational expressions, complex numbers, topics from the theory of equations, polynomials, exponential and logarithmic functions, systems of equations, and conic sections. Credit for MAT 111◊ will not be given if credit for MAT 110◊ previously has been earned.

Prerequisite: MAT 085 or MAT 096 or MAT 103◊ with a grade of C or better, or required Math placement test score, or other placement options (any qualifying ACT or SAT scores)
Lecture: 5

**MAT 111 ◊, # - Pre-Calculus**
5 credits
Operations on real and complex numbers, functional representation, systems of equations, determinants, mathematical induction, and theory of equations, including an introduction to the basic ideas of the relational aspects of plane trigonometry. Credit for MAT 110◊ or MAT 11◊4 will not be given if credit for MAT 111◊ previously has been earned. (Fall 2016)

Prerequisite: Reading and Writing: must meet all current Reading and Writing requirements for RHT 101◊ placement AND MAT 085 or MAT 096 or MAT 103◊ with a grade of B or better, or required Math placement test score, or other placement options
Lecture: 5

**MAT 114 ◊, # - Plane Trigonometry**
3 credits
Trigonometric functions and their graphs, identities, trigonometric equations, right and oblique triangles, inverse trigonometric functions; polar coordinates; vectors, and complex numbers are covered. Credit for MAT 114◊ will not be given if credit for MAT 111◊ previously has been earned.

Prerequisite: Reading and Writing: must meet all current Reading and Writing requirements for RHT 101◊ placement AND MAT 085 or MAT 096 or MAT 103◊ with a grade of C or better, or required Math placement test score, or other placement options (any qualifying ACT or SAT scores)
Lecture: 3

**MAT 116 ◊, # - Math for Elementary School Teachers I**
3 credits
First course in a two-course sequence that is a systematic presentation of elementary mathematics for students who are preparing to teach in elementary schools.

Prerequisite: Reading and Writing: must meet all current Reading and Writing requirements for RHT 101◊ placement AND MAT 085 or MAT 096 or MAT 103◊ with a grade of C or better, or required Math placement test score, or other placement options (any qualifying ACT or SAT scores)
Lecture: 3

**MAT 117 ◊, # - Math for Elementary School Teachers II**
3 credits
Second course in a two-course sequence that is a systematic presentation of elementary mathematics for students who are preparing to teach in elementary schools.

Prerequisite: MAT 116◊ with a grade of C or better
Lecture: 3
IAI: M1 903

**MAT 122 ◊, # - Technical Mathematics**
3 credits
Designed to accommodate individual mathematical needs of students in the technologies according to their requirements. Topics include percent ratio and proportion, measurement, estimation, interpretation of graphs, basic algebra, formula rearrangement, basic geometry, basic trigonometry and their application to solve a variety of occupational and technical problems. Cannot be used to fulfill the mathematics requirement in the AA, AS, AFS, or AGS degrees. (formerly TEC, Elementary Technical Mathematics)

Prerequisite: MAT 045 with a grade of C or better or required Math placement test score
Lecture: 3

**MAT 124 ◊, # - Finite Mathematics**
3 credits
Set theory, matrices, linear programming, probability and Markov Processes are covered. Problems are selected from the fields of social science and business.

Prerequisite: MAT 110◊ or MAT 111◊ with a grade of C or better, or required Math placement test score, or other placement options (any qualifying ACT or SAT scores)
Lecture: 3
IAI: M1 906

**MAT 131 ◊, # - Calculus & Analytic Geometry I**
5 credits
First course in a three-part calculus sequence. Introduces the concept of a limit process which is central to much of modern mathematics. Develops the differential and integral calculus of elementary functions from the limit idea. Develops applications to geometry, physics, economics and other sciences.

Prerequisite: Reading and Writing: must meet all current Reading and Writing requirements for RHT 101◊ placement AND MAT 111◊ OR MAT 110◊ and MAT 114◊ (grades of C or better in all courses) or required Math placement test score, or other placement options (any qualifying ACT or SAT scores)
Lecture: 5
IAI: M1 900-1; MTH 901

**MAT 133 ◊, # - Calculus & Analytic Geometry II**
5 credits
Second course in a three-part calculus sequence that extends the concepts and theory of the first course to transcendental and hyperbolic functions, as well as to sequences and series. Infinite series are introduced, power techniques for integration are developed, and further applications to plane geometry and the sciences are explored.

Prerequisite: MAT 131◊, with a minimum grade of C
Lecture: 5
IAI: M1 900-2; MTH 902

**MAT 134 ◊, # - Introduction to Calculus for Business and Social Science**
5 credits
Provides an introduction to differential and integral calculus of algebraic, exponential, and multivariable functions. Places special emphasis on applications to business, economics, and the social sciences.

Prerequisite: Reading and Writing: must meet all current Reading and Writing requirements for RHT 101◊ placement AND MAT 110◊ or MAT 111◊ with a grade of C or better, or required Math placement test score, or other placement options (any qualifying ACT or SAT scores)(see college placement policy)
Lecture: 5
IAI: M1 900-B

**MAT 170 ◊, # - Elementary Statistics**
4 credits
Fundamentals of descriptive statistics, including measures of center, variation and position, as well as graphical methods are covered. Probability distributions including the Normal, Binomial, Student-T, Chi Square and F-Distribution are included. Inferential statistical concepts such as confidence intervals, sample sizes and hypothesis testing are also studied. The course concludes with work on correlation, regression and two-sample techniques. Students will be expected to utilize some form of technology in the class.

Prerequisite: Reading and Writing: must meet all current Reading and Writing requirements for RHT 101◊ placement AND MAT 080 or MAT 085 or MAT 096 or MAT 103◊ with a grade of C or better, or required math placement test score, or other placement options (any qualifying ACT or SAT scores)
Lecture: 4
IAI: M1 902; BUS 901

**MAT 224 ◊, # - Linear Algebra**
3 credits
A first course in vectors, matrices, vector spaces, and linear transformations. Serves not only as an introduction to more abstract mathematics courses at the junior-senior level, but also have many useful applications outside mathematics. May be taken concurrently with, but should not replace, a course in multivariable calculus. Topics include vectors, vector spaces, matrices, determinants, matrix algebra, and linear independence. Linear transformations eigenvalues and eigenvectors, and applications of these topics. Approximately one-third of the course will involve the concept of mathematical proof as applied to linear algebra.

Prerequisite: MAT 133◊ with a grade of C or better
Lecture: 3
IAI: MTH 911

**MAT 235 ◊, # - Calculus & Analytic Geometry III**
5 credits
Third course in a three-part calculus sequence that extends the concepts and theory of the first two courses to multi-variable calculus. Three-dimensional vectors, vector-valued functions, partial derivatives, multiple integrals, line integrals, surface integrals, Green's Theorem, Stokes' Theorem and Divergence Theorem, including applications to solid analytic geometry and sciences. (Fall 2016)

Prerequisite: MAT 133◊ with a minimum grade of C
Lecture: 5
IAI: M1 900-3; MTH 903

**MAT 341 ◊, # - Differential Equations**
3 credits
Systematic procedures for solving ordinary differential equations, emphasizing solving homogeneous and nonhomogeneous n-th order linear equations. Laplace transformations of elementary functions and their inverses. (Fall 2016)

Prerequisite: MAT 133◊ with a minimum grade of C
Lecture: 3

# MCM - Mass Communication - Multimedia

**MCM 120 ◊, # - Mass Communication**
3 credits
The interrelationships between mass media and contemporary society through explorations of methods and trends in traditional and new media. (Fall 2017)

Prerequisite: RHT 101◊ level or equivalent
Lecture: 3
IAI: MC 911

**MCM 125 ◊, # - Broadcasting History**
3 credits
The cultural history of broadcasting from the invention of radio to television to internet programming. (Fall 2017)

Prerequisite: RHT 101◊ level or equivalent
Lecture: 3

**MCM 130 ◊ - Radio Production**
3 credits
Radio broadcast production; equipment and procedures to produce programs for Internet and traditional radio. Hands-on experience with professional audio production software and

Triton's radio production facilities. (formerly Introduction to Radio Production) *(course fee required)*

Lecture: 2
Laboratory: 2

**MCM 150 ◊ - Film History and Appreciation**
3 credits
The development of film as an art form, focusing on editing, mise-en-scene, acting, cinematography, story structure and how these techniques evolve through the history of cinema. (Fall 2017)

Lecture: 3
IAI: F2 908

**MCM 151 ◊ - Cinema Appreciation**
3 credits
An introduction to film as an art form, emphasizing a study of the aesthetic and production elements of the medium, including narrative genres, directorial style, cinematography, acting, and editing. (Fall 2017)

Lecture: 3
IAI: F2 909

**MCM 152 ◊ - Cinema History**
3 credits
An introduction to film as an art form, emphasizing a study of the aesthetic and production elements of the medium, including narrative genres, directorial style, cinematography, acting, and editing. (Fall 2017)

Lecture: 3

**MCM 160 ◊, # - Reporting and Writing for Multimedia**
3 credits
Techniques of news gathering for print and web reporting, blogging, and interviewing; library and online database research methods; preparing copy for publication; and developing news stories, from idea to finished publication. (Fall 2017) *(course fee required)*

Prerequisite: must meet all current Reading and Writing requirements for RHT 101◊ placement
Lecture: 2
Laboratory: 2

**MCM 200 ◊, # - News Editing**
3 credits
Principles and techniques of electronic editing, information management and publication design for print and web; editing of copy and display type for maximum clarity. (formerly Basic News Editing) (Fall 2017) *(course fee required)*

Prerequisite: MCM 160◊ or participation in High School newspaper Writing or editing
Lecture: 2
Laboratory: 2

**MCM 205 ◊, # - Basic Broadcast Announcing**
3 credits
Radio and internet broadcast announcing principles and techniques; creating programs using professional audio software, reading, and delivering commercials, news, interviews, public service announcements and special events. Performance of live, on-air broadcasts on WRRG, Triton College's radio station. (Basic Broadcast Announcing) (Fall 2017) *(course fee required)*

Prerequisite: MCM 120◊, SPE 101◊
Lecture: 2
Laboratory: 2
IAI: MC 918

**MCM 296 ◊, # - Special Topics in Mass Communication and Journalism**
1 - 4 credits
Mass media topics and issues are studied through readings, discussion, guided research, and field trips. Topics vary from semester to semester. Course is repeatable when topics vary; up to a maximum of 4 credit hours may be used toward graduation.

Prerequisite: any course in Journalism or Mass Communication
Lecture: 1 - 4

# MUS - Music

**MUS 100 ◊ - Rudiments of Theory**
2 credits
Notation, scales, intervals, chords and terminology are covered. Especially recommended for non-music majors. *(course fee required)*

Lecture: 2

**MUS 101 ◊ - Electronic Music Production**
3 credits
Provides a detailed explanation of computer music production. Students will develop skills in loop production, MIDI production, sampling, soft synths, audio recording, editing and mixing through class instruction and hands-on learning. Projects focus on loop production, MIDI production, audio recording and film scoring using Apple computers running Ableton Live and Reason software.

Lecture: 3

**MUS 105 ◊, # - Theory of Music I**
3 credits
Intensive training in the fundamentals of music, part writing and analysis. *(course fee required)*

Prerequisite: satisfactory performance on theory-placement examination; or completion of MUS 100◊ with a grade of C or higher

Corequisite: with MUS 115◊ and MUS 135◊
Lecture: 3

**MUS 106 ◊, # - Theory of Music II**
3 credits
Continuation of the materials presented in MUS 105◊. Emphasis is on the introduction of secondary triads, elementary modulation and dominant seventh chords. *(course fee required)*

Prerequisite: MUS 105◊, MUS 115◊, MUS 135◊ all with a grade of C or higher;
Corequisite: with MUS 116◊ and MUS 235◊
Lecture: 3

**MUS 110 ◊ - Listening to Music**
3 credits
Introduces critical listening techniques of the masterpieces of Western Music. Emphasis is on the joy of exploring the impact of music on our mind and body. Topics include the elements of music, musical forms, musical periods, styles, and the role of music and musicians of the Western world. (Fall 2017)

Lecture: 3
IAI: F1 900

**MUS 115 ◊, # - Sight-Singing and Ear Training I**
1 credit
Laboratory section involving practice in melodic, harmonic and rhythmic dictation, sight-singing and applying the material presented in MUS 105◊. *(course fee required)*

Prerequisite: satisfactory performance on theory-placement examination, or completion of MUS 100◊ with a grade of 'C' or higher
Corequisite: with MUS 105◊ and MUS135◊
Laboratory: 2

**MUS 116 ◊, # - Sight-Singing & Ear Training II**
1 credit
Laboratory section involving practice in melodic, harmonic and rhythmic dictation and sight-singing, applying material presented in MUS 106◊. *(course fee required)*

Prerequisite: MUS 105◊, MUS 115◊, MUS 135◊ all with a grade of C or higher
Corequisite: with MUS 106◊ and MUS 235◊
Laboratory: 2

**MUS 120 ◊ - Record Production I**
3 credits
Details the process of music production and music business. Gives an overview of pre-production, tracking, overdubbing, mixing, mastering, promotion, marketing, sales, royalty computations and the business of music. Hands-on student music projects develop skills in loop production, remixing and mixing using Apple computers running Ableton Live and Reason software.

Lecture: 3

**MUS 135 ◊, # - Keyboard Musicianship I**
1 credit
Keyboard realization of the harmonic materials presented in MUS 106◊. Emphasis is on figured bass, harmonization, modulation and transposition. Required of all students enrolled in MUS 207◊. Offered in combination with MUS 235◊, which is similar in content and lab where students will work in a collaborative environment. Students will work independently for a portion of the class. (formerly Keyboard Harmony I) *(course fee required)*

Prerequisite: satisfactory performance on theory-placement examination, or completion of MUS 100◊, with a grade of C or higher
Corequisite: with MUS 115◊ and MUS 105◊
Laboratory: 2

**MUS 179 ◊ - Applied Music - Instrumental**
1 credit
Provides private instrumental instruction. One hour of private instruction, one day per week. Requires one hour of supervised lab study per week. May be repeated for a maximum of eight accrued credits that may apply toward the Associate of Arts in Music (VPA.MUS.AA), Associate in Fine Arts in Music (VPA.MUS.AFA), or the Associate of Arts in Music Technology (VPA.MUT.AA) degrees. Instruments include: violin, viola, cello, string bass, flute, clarinet, oboe, bassoon, trumpet, French horn, trombone, baritone horn, tuba, percussion, saxophone, classical guitar, jazz/rock guitar, and jazz/rock drums. (Fall 2016) *(course fee required)*

Laboratory: 2

**MUS 180 ◊ - Applied Music - Piano**
1 credit
Private piano instruction. Meets for one hour of private instruction, one day per week. Requires one hour of supervised lab study per week. May be repeated for a maximum of eight accrued credits. Eight credits may apply toward the Associate in Arts in Music (VPA.MUS.AA), the Associate in Fine Arts in Music (VPA.MUS.AFA), or the Associates in Arts in Music Technology (VPA.MUT.AA) degrees. (Fall 2016) *(course fee required)*

Laboratory: 2

**MUS 181 ◊ - Applied Music - Voice**
1 credit
Private voice instruction. Meets for one hour of private instruction, one day per week. Requires one hour of supervised lab study per week. May be repeated for a maximum of eight accrued credits. Eight credits may apply toward the Associate in Arts in Music (VPA.MUS.AA), the Associate in Fine Arts in Music (VPA.MUS.AFA), or the Associate in Arts in Music Technology (VPA.MUT.AA) degrees. (Fall 2016) *(course fee required)*

Laboratory: 2

**MUS 200 ◊, # - Improvisation I**
2 credits
This course is a structured study of the theory and techniques of improvisation as used by the commercial/jazz musician and applied to the student's major instrument through reading,

listening, transcribing and performing. *(course fee required)*

Prerequisite: MUS 105◊, MUS 115◊; and MUS 106◊, MUS 116◊, MUS 135◊ or MUS 235◊ OR
Corequisite: with MUS 105◊, MUS 115◊; and MUS 106◊, MUS 116◊, MUS 135◊ or MUS 235◊
Lecture: 1
Laboratory: 2

**MUS 201 ◊, # - Improvisation II**
2 credits
Continuation and further refinement of the skills and materials developed in MUS 200◊. *(course fee required)*

Prerequisite: MUS 106◊, MUS 116◊ and MUS 200◊; and MUS 135◊ or MUS 235◊ OR
Corequisite: with MUS 135◊ or MUS 235◊
Lecture: 1
Laboratory: 2

**MUS 202 ◊, # - Improvisation III**
2 credits
Continuation and further refinement of the skills and materials developed in MUS 200◊ and MUS 201◊. *(course fee required)*

Prerequisite: MUS 207◊, MUS 217◊, MUS 135◊
Corequisite: with MUS 208◊, MUS 218◊ and MUS 235◊
Lecture: 1
Laboratory: 2

**MUS 207 ◊, # - Theory of Music III**
3 credits
Harmony, counterpoint and analysis are covered. Emphasis is on altered chords, including the Augmented sixth, the Neapolitan, Borrowed Chords, secondary-dominant and secondary-leading-tone chords. *(course fee required)*

Prerequisite: MUS 106◊, MUS 116◊, MUS 235◊ all with a grade of C or higher
Corequisite: with MUS 180◊ and MUS 217◊
Lecture: 3

**MUS 208 ◊, # - Theory of Music IV**
3 credits
Continuation on an advanced level of the material presented in the previous three semesters of music theory. Emphasis is on chromatic harmony and recent compositional techniques. *(course fee required)*

Prerequisite: MUS 207◊, MUS 217◊, MUS 180◊ all with a grade of C or higher;
Corequisite: with MUS 218◊
Lecture: 3

**MUS 211 ◊, # - Arranging & Composition**
2 credits
This is a structured study of the techniques of writing for the various types and sizes of ensembles most used in the commercial music field. *(course fee required)*

Prerequisite: MUS 207◊, MUS 217◊, MUS 235◊ and MUS 247◊
Corequisite: with MUS 208◊, MUS 218◊ and MUS 249◊
Lecture: 2

**MUS 212 ◊, # - Commercial Vocal Repertoire I**
2 credits
This course is a structured survey of standard song literature from the commercial music area, stressing tasteful and technically correct performance practice. Standard repertoire from pre-1920 to the present are presented. *(course fee required)*

Corequisite: with MUS 181◊
Lecture: 1
Laboratory: 2

**MUS 213 ◊, # - Commercial Vocal Repertoire II**
2 credits
Continuation of MUS 212◊ covering Broadway and pop literature. *(course fee required)*

Prerequisite: MUS 212◊;
Corequisite: with MUS 181◊
Lecture: 1
Laboratory: 2

**MUS 215 ◊, # - Introduction to Music History**
3 credits
Examine the development of music as an art in western civilization from antiquity to present. Emphasis is on musical works and style, as well as understanding of musical concepts. Some musical background is recommended. Students with no musical background are advised to take MUS 110◊, Music Appreciation.

Prerequisite: sophomore standing
Lecture: 3
IAI: F1 901

**MUS 216 ◊ - Music in America**
3 credits
A survey of music and musicians in America from colonial times to the present. The position of music in American social life and institutions is discussed, along with the influence of foreign musical traditions.

Lecture: 3
IAI: F1904

**MUS 217 ◊, # - Sight Singing and Ear Training III**
1 credit
Laboratory section involving practice in melodic, harmonic and rhythmic dictation and sight-singing, applying material presented in MUS 106◊. *(course fee required)*

Prerequisite: MUS 106◊, MUS 116◊, MUS 235◊ all with a grade of C or higher
Corequisite: with MUS 207◊
Laboratory: 2

**MUS 218 ◊, # - Sight-Singing & Ear Training IV**
1 credit
Student will successfully perform vocally and recognize examples, which employ the same compositional styles as those in MUS 208◊. *(course fee required)*

Prerequisite: MUS 180◊, MUS 207◊, MUS 217◊, all with a grade of C or higher;
Corequisite: with MUS 208◊
Laboratory: 2

**MUS 220 ◊, # - Record Production II**
3 credits
Educates students about the business side of the music industry and provides students with an advanced realistic studio experience covering engineering, how to listen, what to listen for, studio equipment, industry lingo, calculation of royalties and publishing, how to create a production budget for a record label and/or production company, how to produce various genres of music, as well as creation of a demo.

Prerequisite: MUS 120◊
Lecture: 3

**MUS 235 ◊, # - Keyboard Musicianship II**
1 credit
Continuation and further development of the skills and materials presented in MUS 135◊. Offered in combination with MUS 135◊, which is similar in content and lab. Students will work in a collaborative environment with students in MUS 135◊. Students will work independently for a portion of the class. (formerly, Keyboard Harmony II) *(course fee required)*

Prerequisite: MUS 105◊, MUS 115◊, MUS 135◊ all with a grade of C or higher
Corequisite: with MUS 106◊ and MUS 116◊
Laboratory: 2

**MUS 247 ◊, # - Commercial Keyboard Harmony I**
1 credit
Vocabulary and structure of the music language as used in a commercial/jazz format is taught at the keyboard. Primary emphasis is conceptual. High keyboard skill levels desirable but not required. *(course fee required)*

Prerequisite: MUS 106◊, MUS 116◊; and MUS 207◊, MUS 217◊ and MUS 235◊ OR
Corequisite: with MUS 207◊, MUS 217◊ and MUS 235◊
Laboratory: 2

**MUS 249 ◊, # - Commercial Keyboard Harmony II**
1 credit
A continuation of the principles and applications presented in MUS 247◊. *(course fee required)*

Prerequisite: MUS 207◊, MUS 217◊, MUS 247◊; and MUS 208◊, MUS 218◊ and MUS 235◊ OR
Corequisite: with MUS 208◊, MUS 218◊ and MUS 235◊
Laboratory: 2

**MUS 250 ◊ - Concert Band**
1 credit
Students will perform the finest contemporary literature, traditional classics and successful orchestra transcriptions available for band. Public performances are planned. May be repeated three times for a total of four credits. Four credits may apply toward the Associate in Arts in Music (VPA.MUS.AA), the Associate in Fine Arts in Music (VPA.MUS.AFA), or the Associate in Arts in Music Technology (VPA.MUT.AA) degrees. (Fall 2016) *(course fee required)*

Laboratory: 2

**MUS 253 ◊, # - Ensemble**
1 credit
Students will perform in small ensembles. Some public performance is required. May be repeated for a maximum of four accrued credits. *(course fee required)*

Prerequisite: department consent
Laboratory: 2

**MUS 262 ◊ - Choral Ensemble**
1 credit
Students will perform classical and popular choral literature in a choral ensemble setting. Public performances are planned each semester. May be repeated three times for a total of four credits. Four credits may apply toward the VPA.MUS.AA, VPA.MUS.AFA, or VPA.MUT.AA degrees. (Fall 2016) *(course fee required)*

Laboratory: 2

**MUS 266 ◊ - Jazz Band**
1 credit
Students will perform some of the finest dance, jazz, and big band literature. Public performances are planned. May be repeated three times for a total of four credits. Four credits may apply toward the Associate in Arts in Music (VPA.MUS.AA), the Associate in Fine Arts in Music (VPA.MUS.AFA), or the Associate in Arts in Music Technology (VPA.MUT.AA) degrees. (Fall 2016) *(course fee required)*

Laboratory: 2

**MUS 296 ◊ - Special Topics in Music**
3 credits
This course is a study of international topics and problems through readings, discussion, guided research and field trips. Topics vary from semester to semester and must be approved by the dean of Arts and Sciences.

Lecture: 3

# NAS - Nurse Assistant

**NAS 100 ◊, # - Basic Nurse Assistant**
6 credits
Principles and procedures used by the nurse assistant across various health settings to meet basic human needs. Included are basic medical terminology, body structure and function, concept of life span, communications and safety, as well as clinical experience in long-term care facilities. Meets the Illinois Department of Public Health Requirement for the nurse assistant certificates. *(course fee required)*

Prerequisite: admission to the Nurse Assistant program
Lecture: 4
Laboratory: 2
Clinical Laboratory: 2

**NAS 101 ◊, # - Nurse Assistant: Care of Patients With Alzheimer's Disease**
1 credit
Basic nursing care of patients with Alzheimer's disease and related disorders.

Prerequisite: NAS 100◊ OR
Corequisite: with NAS 100◊
Lecture: 1

# NUM - Nuclear Medicine Technology

**NUM 100 ◊, # - Science of Nuclear Medicine**
3 credits
Principles of radiation as used in practice of Nuclear Medicine, methods of decay, decay schemes, production of radionuclides and gamma radiation interactions with matter. Calculations of decay, biological and physical half-life and half-value layer.

Prerequisite: admission to program
Lecture: 3

**NUM 103 ◊, # - Radiation Safety and Protection**
2 credits
Introduction to the history and development of the Nuclear Medicine field. Philosophy of As Low as Reasonably Achievable (ALARA) and practical measures to apply in the clinical setting, including safe handling, receiving, storage, disposal and decontamination of radioactive material. Occupational exposure, personal monitoring, limits and associated exposure units, regulations and documents governing the use of radioactive material. Principles of radiation biology and potential effects of exposure to the human body.

Prerequisite: admission to program
Lecture: 2

**NUM 140 ◊, # - Instrumentation in Nuclear Medicine**
5 credits
Principles and operation of gas detector and scintillation detection systems and the components that make up each of these systems. Methods of image reconstruction and enhancement used in studies. Fundamental components, applications and processing techniques used in Nuclear Medicine computers. Laboratory experience supporting use of instrumentation, quality control parameters and computer applications. *(course fee required)*

Prerequisite: NUM 100◊ and NUM 103◊
Lecture: 3
Laboratory: 4

**NUM 155 ◊, # - Patient Care in Nuclear Medicine**
2 credits
Principles of patient care to prepare students for work in the clinical setting. Professionalism and ethics, cultural competency, effective patient interaction, body mechanics, patient transfer and positioning, infection control, emergency procedures, patient support, specialized equipment and venipuncture techniques. Includes orientation to the student's three clinical rotation sites. *(course fee required)*

Prerequisite: NUM 100◊ and NUM 103◊
Lecture: 1
Laboratory: 2

**NUM 160 ◊, # - Nuclear Medicine Procedures I**
3 credits
Introduction to clinical Nuclear Medicine, bone and lung imaging procedures, associated anatomy/physiology and radiopharmaceuticals, indications, pathology and scan interpretation. Pediatric imaging, review of statistics used in the practice of Nuclear Medicine and case study presentations.

Prerequisite: NUM 140◊ and NUM 155◊
Lecture: 3

**NUM 161 ◊, # - Applied Nuclear Medicine Technology I**
1 credit
Part one in the first supervised clinical rotations to introduce the student to the practice of Nuclear Medicine, overall operation of the department and duties of the technologist. The student needs to show proof of Basic Life Support (BLS) for Healthcare Provider that is current for the duration of the semester. *(course fee required)*

Prerequisite: NUM 140◊, NUM 155◊
Clinical Laboratory: 2

**NUM 181 ◊, # - Applied Nuclear Medicine Technology II**
1 credit
Part two of the first supervised clinical experiences for students to learn by observing and assisting the technologist in basic scanning procedures, patient care, instrument quality control and radiopharmacy practices. Positron Emission Tomography (PET), Computed Tomography (CT) rotations and injection procedures may be completed during this semester. The student needs to show proof of Basic Life Support (BLS) for Healthcare Provider that is current for the

duration of the semester. *(course fee required)*

Prerequisite: NUM 161◊
Clinical Laboratory: 2

**NUM 260 ◊, # - Nuclear Medicine Procedures II**
4 credits
Principles of Nuclear Medicine procedures for cardiac, gastrointestinal, and genitourinary systems. Associated anatomy/ physiology, indications, pathology and scan interpretation. Overview of lab principles and procedures for in-vitro Nuclear Medicine studies. *(course fee required)*

Prerequisite: NUM 160◊ and NUM 181◊
Lecture: 4

**NUM 261 ◊, # - Applied Nuclear Medicine Technology III**
2 credits
Second of three supervised clinical experiences provides students with opportunities to build on skills from first clinical rotation to gain competency in Nuclear Medicine procedures, patient care, instrument quality control, computer analysis and radiopharmacy practices. Positron Emission Tomography (PET), Computed Tomography (CT), Pediatric rotations and injection procedures may be completed during this semester. The student needs to show proof of Basic Life Support (BLS) for Healthcare Provider that is current for the duration of the semester. *(course fee required)*

Prerequisite: NUM 181◊
Clinical Laboratory: 4

**NUM 262 ◊, # - Nuclear Medicine Pharmacy I**
2 credits
Essentials of radiopharmaceuticals, diagnostic versus therapeutic, review of new drug approval process, properties of technetium, its chemistry and quality control tests. Fundamental concepts of radiopharmaceutical design, preparation and pharmacokinetics of agents utilized in the imaging of cardiac, gastrointestinal, and genitourinary systems.

Prerequisite: NUM 160◊
Corequisite: with NUM 260◊
Lecture: 2

**NUM 265# - Principles of PET for Nuclear Medicine**
2 credits
Nuclear Medicine practice specific to Positron Emission Tomography (PET) imaging; physics of positron emission, principles of radionuclide production and use, normal and abnormal distribution, radiation safety practices, design and operation of detector, patient management and review of role of PET imaging in cardiology, neurology and oncology. (formerly Principles of PET in Nuclear Medicine)

Prerequisite: NUM 160◊, NUM 161◊ or graduate of accredited Nuclear Medicine program
Lecture: 2

**NUM 280 ◊, # - Nuclear Medicine Procedures III**
4 credits
Principles of Nuclear Medicine procedures for endocrine, infection, central nervous system (CNS), oncology and therapy procedures. Associated anatomy/ physiology, indications, pathology and scan interpretation. Overview of Nuclear Regulatory Commission (NRC) rules and regulations associated with therapy practices and procedures. Review for certification board exam and creation of presentation for Program's Legacy project.

Prerequisite: NUM 260◊
Lecture: 4

**NUM 281 ◊, # - Applied Nuclear Medicine Technology IV**
2 credits
Last of three supervised clinical experiences provides students with opportunities for practical application of theory and skill to achieve clinical competency in Nuclear Medicine procedures, patient care, instrument quality control, computer analysis and radiopharmacy practices. Positron Emission Tomography (PET), Computed Tomography (CT), Pediatric rotations and injection procedures may be completed. The student needs to show proof of Basic Life Support (BLS) for Healthcare Provider that is current for the duration of the semester. *(course fee required)*

Prerequisite: NUM 261◊
Clinical Laboratory: 4

**NUM 282 ◊, # - Nuclear Medicine Pharmacy II**
2 credits
Preparation and localization of radiopharmaceuticals utilized for therapy and imaging of tumors and endocrine, immune and Central Nervous Systems (CNS). Preparation for job search including resume writing and interviewing. Management and leadership in clinical setting. Board exam review.

Prerequisite: NUM 262◊
Corequisite: with NUM 280◊
Lecture: 2

**NUM 285# - Principles of CT for Nuclear Medicine**
1 credit
Essentials of computerized tomography (CT) for the Nuclear Medicine technologist. Principles of CT physics, scanners, imaging, protocols and quality control. Review of cross sectional anatomy.

Prerequisite: NUM 260◊, NUM 261◊ or graduate of accredited Nuclear Medicine program
Lecture: 1

# NUR - Nursing

### NUR 095# - Strategies for NCLEX Success

1 credit

Students who have not met the requirement of NUR 190◊ or NUR 290◊ for successful completion of the respective standardized comprehensive nursing exam. Develop and implement an individualized study plan utilizing a variety of success strategies. Upon completion of the exam, a successful score will be used to calculate the final course grade for NUR 190◊ or NUR 290◊. May be repeated only one time for the purpose of meeting the comprehensive nursing exam requirement for NUR 190◊, for LPNs; or one time for the purpose of meeting the comprehensive nursing exam requirement for NUR 290◊, for RNs. (Spring 2016) *(course fee required)*

Prerequisite: NUR 190◊ and NUR 290◊ with the exception of the standardized comprehensive nursing exam for the related course.
Lecture: 1

### NUR 105 ◊, # - Introduction to Nursing Academics

1 credit

Acquaints the pre-nursing student with the skills necessary to navigate and survive the rigors of academic life within the nursing program. Introduces the student to college structure and resources and is designed to promote learning skills, study habits, time management and critical thinking. Emphasis is placed on utilizing and applying these skills as they relate to the nursing program. (One 100-level nursing course may be repeated with approval of the Nursing Admission Committee.) (Spring 2016) *(course fee required)*

Prerequisite: program prerequisites and pre-admission test; approval of Nursing Admissions Committee
Lecture: 1

### NUR 106# - Nursing Concepts and Practice

1 credit hour

Fundamental concepts of nursing across the life-span, essential core values of the nursing profession and the Quality and Safety Education in Nursing (QSEN) competencies: Patient-Centered Care, Teamwork and Collaboration, Evidence-Based Practice, Quality Improvement, Informatics, and Safety. (Fall 2018)

Prerequisite: admission to the Associate Degree Nursing program
Lecture: 1

### NUR 107# - Introduction to Nursing Roles

3 credits

Professional roles and relationships of the registered nurse utilizing the nursing process, Quality and Safety Education for Nurses (QSEN) competencies, and essential components of professional communication for the delivery of safe and competent care. NOTE: NUR 107 and NUR 108 are listed as corequisites must be taken and passed at the same time. Failure to pass one corequisite will require repeating both corequisites, which will count as one failure. One failure is allowed for NUR 100 level and one failure is allowed for NUR 200 level courses with no exceptions. (Fall 2018)

Prerequisite: NUR 106
Corequisite: with NUR 108
Lecture: 2
Laboratory: 2

### NUR 108# - Nursing Roles Clinical

1 credit

The clinical component of NUR 107. Clinical application of a patient centered approach to prepare beginning students in the new role of a professional nurse, to develop knowledge, skills and attitudes that reflect patient centered care, safety, informatics, teamwork, collaboration, quality improvement and evidence based practice across the lifespan. Students will apply critical thinking, professional communication when providing care to clients in the acute care setting.
NOTE: NUR 107 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite will require repeating both corequisites, which will count as one failure. One failure is allowed for NUR 100 level and one failure is allowed for NUR 200 level courses with no exceptions. (Fall 2018) *(course fee required)*

Prerequisite: NUR 106;
Corequisite: with NUR 107
Clinical Laboratory: 2

### NUR 109# - Physical Assessment

3 credits

Decision-making in promoting health in adult individuals with health problems that result in multiple problems; utilization of the nursing process, physical assessment skills, interpretation of data, collaboration and coordination, and development of an assessment tool in meeting basic needs. (Fall 2018) *(course fee required)*

Prerequisite: admission into the Nursing program; BIS 240◊, BIS 241◊
Lecture: 2
Laboratory: 2

### NUR 111# - Adult Health Concepts I

3 credits

Essential medical and surgical knowledge and skills needed to provide nursing care to clients with respiratory, gastrointestinal, and fluid /electrolyte and acid-base dysfunctions throughout the adult life cycle. Medication administration is introduced to the students. Utilization of patient centered approach to prepare students to develop knowledge, skills and attitudes that reflect patient-centered care, safety, informatics, teamwork and collaboration, quality improvement and evidence based practice.
NOTE: NUR 113 is a corequisite and must be taken and passed at the same time. Failure to pass one corequisite will require repeating both corequisites, which will count as one failure. One failure is allowed for NUR 100 level and one

failure is allowed for NUR 200 level courses with no exceptions. (Fall 2018) *(course fee required)*

Prerequisite: NUR 107, NUR 108, NUR 109
Corequisite: with NUR 113
Lecture: 2
Laboratory: 2

**NUR 113# - Adult Health Clinical I**
1 credit
The clinical component of NUR 111. Clinical application of a patient centered approach to prepare students to develop knowledge, skills and attitudes that reflect patient-centered care, safety, informatics, teamwork and collaboration, quality improvement and evidence based practice. Provides the student with the opportunity to apply essential respiratory, cardiac, gastrointestinal, renal, urologic, musculoskeletal systems' dysfunctions knowledge and skills to the provision of client care in the clinical setting. Nursing care will be provided in a variety of settings including acute care, ambulatory care and the community.
NOTE: NUR 111 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite will require repeating both corequisites, which will count as one failure. One failure is allowed for NUR 100 level and one failure is allowed for NUR 200 level courses with no exceptions. (Fall 2018) *(course fee required)*

Prerequisite: NUR 107, NUR 108, NUR 109
Corequisite: with NUR 111
Clinical Laboratory: 2

**NUR 116# - Adult Health Concepts II**
3 credits
Medical and surgical knowledge and skills needed to provide nursing care to clients with renal and urologic, endocrine, sensory, neurological, and musculoskeletal system dysfunctions throughout the adult life cycle. Perioperative care of the patient is also addressed. Utilization of patient centered approach to prepare students to develop knowledge, skills and attitudes that reflect patient-centered care, safety, informatics, teamwork and collaboration, quality improvement and evidence based practice.
NOTE: NUR 117 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite will require repeating both corequisites, which will count as one failure. One failure is allowed for NUR 100 level and one failure is allowed for NUR 200 level courses with no exceptions. (Fall 2018)

Prerequisite: NUR 111, NUR 113
Corequisite: with NUR 117
Lecture: 3

**NUR 117# - Adult Health Clinical II**
1 credit
The clinical component of NUR 116. Clinical application of a patient centered approach to prepare students to develop knowledge, skills and attitudes that reflect patient-centered care, safety, informatics, teamwork and collaboration, quality improvement and evidence based practice. Provides the student with the opportunity to apply knowledge learned about fluids and electrolytes, endocrine, sensory, neurological, and integumentary dysfunction to the provision of client care in the clinical setting. Nursing care will be provided in a variety of settings including acute care, ambulatory care and the community.
NOTE: NUR 116 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite will require repeating both corequisites, which will count as one failure. One failure is allowed for NUR 100 level and one failure is allowed for NUR 200 level courses with no exceptions. (Fall 2018) *(course fee required)*

Prerequisite: NUR 111, NUR 113
Corequisite: with NUR 116
Clinical Laboratory: 2

**NUR 130 ◊, # - Promoting Adaptation I**
4 credits
Role of the professional nurse and the application of Roy, Maslow and Erikson theories providing nursing care. Assessment and maintenance of indicators of adaptation of individuals across the lifespan, including the childbearing and childrearing family with a multicultural society. Safe performance of basic nursing skills, physical assessment, the nursing process, communication, cultural competency, collaboration, problem solving, critical thinking and nursing judgment to promote adaptation of the physiologic needs of protection and activity and rest. (One 100-level nursing course may be repeated with approval of the Nursing Admission Committee.) (Spring 2016) *(course fee required)*

Prerequisite: admission to the Nursing program
Lecture: 2.5
Laboratory: 2
Clinical Laboratory: 1

**NUR 135 ◊, # - Promoting Adaptation II**
5 credits
Continues to build on the skills and processes introduced in NUR130◊. Emphasizes assessment and maintenance of the concepts and theories related to the physiologic needs of oxygenation, nutrition and elimination, and the complex processes of fluid, electrolyte, and acid-base balance; neurologic function, endocrine function and the senses. Introduces the psychosocial modes of self-concept, role function and interdependence. Basic pharmacological processes to promote adaptation are introduced. (One 100- level course may be repeated with approval of the Nursing Admission Committee.) *(course fee required)*

Prerequisite: NUR 130◊; admission to the Nursing program
Lecture: 3
Laboratory: 3
Clinical Laboratory: 1

**NUR 145 ◊, # - Nursing Care of Individuals with Commonly Recurring Adaptation Problems I**
5 credits
Focuses on a holistic approach to the nursing care of individuals with adaptation problems that occur across the life span, including those of the childbearing and childrearing family, within a multicultural society. Includes commonly recurring problems related to the psychosocial modes and to the physiologic needs of oxygenation, nutrition, elimination, activity and rest, and protection. Problem solving and critical thinking skills are emphasized in the utilization of the nursing process. (One 100-level nursing course may be repeated with the approval by the Nursing Admission Committee.) *(course fee required)*

Prerequisite: score of 100 % on Dosages and Solutions Math test; NUR 130◊, NUR 135◊, EDU 206◊
Corequisite: with BIS 137◊ or BIS 241◊ and NUR 146◊
Lecture: 3
Laboratory: 2
Clinical Laboratory: 2

**NUR 146 ◊, # - Pharmacology in Nursing I**
1 credit
Nursing responsibilities and implications related to the administration of pharmacological agents in the treatment of commonly recurring problems related to the psychosocial modes and to the physiologic needs. Concepts of drug action, use and classification. Ethical and legal issues associated with medication administration. (One 100-level course maybe repeated with the approval of the Nursing Admission Committee.) *(course fee required)*

Corequisite: NUR 145◊
Lecture: 1

**NUR 155 ◊, # - Nursing Care of Individuals with Commonly Recurring Adaptation Problems II**
5 credits
Holistic approach to the nursing care of individuals with adaptation problems that occur across the life span, including those of the childbearing family within a multicultural society. Commonly recurring problems of the complex processes of fluid and electrolytes, senses, and neurologic and endocrine functions. Problem solving and critical thinking skills are emphasized in the utilization of the nursing process. (One 100-level nursing course may be repeated with approval of the Nursing Admission Committee.) *(course fee required)*

Prerequisite: NUR 145◊ and NUR 146◊
Corequisite: BIS 137◊ or BIS 241◊, NUR 156◊
Lecture: 3
Laboratory: 2
Clinical Laboratory: 2

**NUR 156 ◊, # - Pharmacology in Nursing II**
1 credit
Nursing responsibilities and implications related to the administration of pharmacological agents in the treatment of commonly recurring problems related to the complex processes of the physiologic mode. Concepts of drug action, use and classification. Ethical and legal issues associated with medication administration. (One 100-level nursing course may be repeated with the approval of the Nursing Admission Committee.)

Prerequisite: NUR 145◊, NUR 146◊
Corequisite: with NUR 155◊
Lecture: 1

**NUR 185 ◊, # - Transition From License Practical Nurse to the Associate Degree Registered Nurse Student**
3 credits
The philosophy and curriculum of the Triton College AD Nursing program and the role and responsibilities of the AD Nursing student. Students will enhance development and demonstration of problem solving and critical thinking skills, which are expected of the RN, through application of the nursing process in a clinical setting, including demonstration of competency of nursing skills expected of students completing level one of the program. *(course fee required)*

Prerequisite: LPN license, admission to the AD Nursing program; optional for Advanced Placement students who proficiency test out of semester one and two
Lecture: 2
Laboratory: 2

**NUR 190 ◊, # - Preparation for the Practical Nursing Role**
4 credits
Emphasizes the transition from student to Licensed Practical Nurse (LPN), including preparation for licensure exam, job placement skills, and assuming the management responsibilities of the LPN; Clinical experiences emphasize the legal and ethical responsibilities in managing care for a group of individuals with commonly recurring adaptation problems. (One 100-level nursing course may be repeated with approval of the Nursing Admission Committee.) *(course fee required)*

Prerequisite: NUR 155◊ and NUR 156◊
Lecture: 3
Clinical Laboratory: 2

**NUR 207# - Mental Health Concepts**
2 credits
Utilization of the nursing process and Quality and Safety Education for Nurses (QSEN) competencies to provide client-centered nursing care for clients experiencing mental health disorders. Emphasis is placed on developing nursing judgment based on evidence to promote health and provide care for adult patients with common mental health variations. Addresses various treatment modalities and interventions including those applicable to community-based care.
NOTE: NUR 208 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite will require repeating both corequisites. One failure is

allowed for NUR 100 level and one failure is allowed for NUR 200 level courses with no exceptions. (Fall 2018)

Prerequisite: NUR 116 and NUR 117
Corequisite: with NUR 208
Lecture: 2

**NUR 208# - Mental Health Clinical**
1 credit
The clinical component of NUR 207. Clinical application of a patient centered approach to prepare nursing students to develop knowledge, skills and attitudes that reflect patient-centered care, safety, informatics, teamwork and collaboration, quality improvement and evidence based practice in applying the concepts of mental health nursing in acute and community-based settings. NOTE: NUR 207 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite will require repeating both corequisites, which will count as one failure. One failure is allowed for NUR 100 level and one failure is allowed for NUR 200 level courses with no exceptions. (Fall 2018) *(course fee required)*

Prerequisite: NUR 116 and NUR 117
Corequisite: with NUR 207
Clinical Laboratory: 2

**NUR 209# - Maternal Child**
2 credits
Client-centered nursing care for childbearing women, infants and clients with problems related to the reproductive system. Students will utilize the Quality and Safety Education for Nurses (QSEN) competencies and the nursing process to address common alterations in body systems. NOTE: NUR 211 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite course will require repeating both corequisites courses, which will count as one failure. One failure is allowed for NUR 100 courses and one failure for NUR 200 with courses no exceptions. (Fall 2018)

Prerequisite: NUR 106, AHL 112, BIS 222◊
Corequisite: with NUR 211
Lecture: 2

**NUR 211# - Maternal Child Clinical**
1 credit
The clinical component of NUR 209. Clinical application of a family centered approach to prepare nursing students to develop knowledge, skills and attitudes that reflect patient-centered care, safety, informatics, teamwork and collaboration, quality improvement and evidence based practice in applying the nursing concepts to childbearing families and clients with reproductive problems in acute and community-based settings. NOTE: NUR 209 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite course will require repeating both corequisites courses, which will count as one failure. One failure is allowed for NUR 100 courses and one failure for NUR 200 courses with no exceptions. (Fall 2018) *(course fee required)*

Prerequisite: NUR 106, AHL 112, BIS 222◊
Corequisite: with NUR 209
Clinical Laboratory: 2

**NUR 213# - Pediatric Health Concepts**
2 credits
Examination of nursing care related to health needs of patients from infancy through adolescence and their families. Emphasis is placed on developing nursing judgment based on evidence to promote health and provide care for pediatric patients with common health variations.
NOTE: NUR 214 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite course will require repeating both corequisites courses, which will count as one failure. One failure is allowed for NUR 100 courses and one failure for NUR 200 courses with no exceptions. (Fall 2018)

Prerequisite: BIS 222◊, BIS 242◊, AHL 112, EDU 206◊, NUR 116, NUR 117
Corequisite: with NUR 214
Lecture: 2

**NUR 214# - Pediatric Concepts Clinical**
1 credit
Clinical component of NUR 213. Clinical application of a family centered approach to prepare nursing students to develop knowledge, skills and attitudes that reflect patient-centered care, safety, informatics, teamwork and collaboration, quality improvement and evidence based practice in applying the concepts of pediatric nursing in various pediatric health related settings: schools, clinics, acute and chronic care facilities. NOTE: NUR 213 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite course will require repeating both corequisites courses, which will count as one failure. One failure is allowed for NUR 100 courses and one failure for NUR 200 courses with no exceptions. (Fall 2018) *(course fee required)*

Prerequisite: BIS 222◊, BIS 242◊, AHL 112, EDU 206◊, NUR 116, NUR 117
Corequisite: with NUR 213
Clinical Laboratory: 2

**NUR 215# - Adult Health Concepts III**
4 credits
Advanced medical and surgical knowledge and skills needed to provide nursing care to clients with multisystem organ failure, organ transplants, intravascular coagulation, human immunodeficiency virus, oncology, shock, and burns. Utilization of patient centered approach to prepare students to develop knowledge, skills and attitudes that reflect patient-centered care, safety, informatics, teamwork and collaboration, quality improvement and evidence based practice. NOTE: NUR 216 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite course will require repeating both corequisites courses, which will count as one

failure. One failure is allowed for NUR 100 courses and one failure for NUR 200 courses with no exceptions. (Fall 2018)

Prerequisite: NUR 111, NUR 113
Corequisite: with NUR 216
Lecture: 4

**NUR 216# - Adult Health Clinical III**
1 credit
The clinical component of NUR 215. Clinical application of a patient-centered approach to prepare students to develop knowledge, skills and attitudes that reflect patient-centered care, safety, informatics, teamwork and collaboration, quality improvement and evidence based practice. Provides students with the opportunity to apply advanced concepts to multisystem organ failure, organ transplants, intravascular coagulation, human immunodeficiency virus, oncology, shock, and burns. Nursing care will be provided in a variety of settings, including acute care, ambulatory care and the community.
NOTE: NUR 215 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite course will require repeating both corequisites courses, which will count as one failure. One failure is allowed for NUR 100 courses and one failure for NUR 200 courses with no exceptions. (Fall 2018) *(course fee required)*

Prerequisite: NUR 116, and NUR 117
Corequisite: with NUR 215
Clinical Laboratory: 2

**NUR 217# - Leadership and Role Transition Concepts**
2 credits
Facilitate the student nurse from student to novice professional nurse to meet the needs of an ever-changing health care environment. The concepts of professionalism, leadership, management, and career development with an emphasis on delegation and prioritization of nursing care are further developed.
NOTE: NUR 218 is listed as a corequisite and must be taken and passed at the same time. Failure to pass one corequisite course will require repeating both corequisite courses, which will count as one failure. One failure is allowed for NUR 100 courses and one failure for NUR 200 courses with no exceptions. (Fall 2018)

Prerequisite: NUR 215, NUR 216
Corequisite: with NUR 218

Lecture: 2

**NUR 218# - Leadership and Role Transition Concepts Clinical**
1 credit
The clinical component of NUR 217. Clinical application of knowledge, skills, and attitudes gained throughout the nursing program with emphasis placed on professionalism, clinical judgment, leadership, and management of a group of patients. Integration of communication, collaboration, patient-centered care, evidenced-based practice, and technology to provide safe and competent patient care. Students will utilize critical thinking, teaching–learning principles, therapeutic communication and the Quality and Safety Education for Nurses (QSEN) competencies when providing care to multiple clients in the clinical setting.
NOTE: NUR 217 is listed as a corequisite must be taken and passed at the same time. Failure to pass one corequisite course will count as one failure. One failure is allowed for NUR 100 courses and one failure for NUR 200 courses with no exceptions. (Fall 2018) *(course fee required)*

Prerequisite: NUR 215 and NUR 216
Corequisite: with NUR 217
Clinical Laboratory: 2

**NUR 219# - Exit Seminar**
1 credit
Synthesis of nursing content, Quality and Safety Education for Nurses (QSEN) Core Competencies, and a comprehensive predictor exit examination for National Council Licensure Examination (NCLEX) RN (Registered Nurse) licensure. (Fall 2018)

Prerequisite: NUR 216
Lecture: 1

**NUR 225 ◊, # - Promoting Adaptation: Chronic Health Problems**
4 credits
Application of clinical decision making in promoting adaptation of individuals with chronic health problems that result in multiple adaptation problems. Enhanced utilization of the nursing process, including interpretation of data, therapeutic communication, collaboration & coordination & development of teaching plans. (One 200-level course can be repeated with approval of the Nursing Admission Committee.) (Spring) *(course fee required)*

Prerequisite: NUR 155◊ and NUR 156◊
Lecture: 2.5
Laboratory: 1
Clinical Laboratory: 2

**NUR 235 ◊, # - Promoting Adaptation: Psychosocial and Rehabilitation Problems**
4 credits
Application of clinical decision making in promoting adaptation of individuals with psychosocial and rehabilitation health problems that result in multiple adaptation problems. Emphasizes enhanced utilization of the nursing process, including interpretation of data, therapeutic communication, collaboration and coordination, development of teaching plans, and identification of community resources available to assist individuals in meeting basic needs. (One 200-level course may be repeated with the approval of the Nursing Admissions Committee) *(course fee required)*

Prerequisite: NUR 155◊ and NUR 156◊
Lecture: 2.5
Laboratory: 1
Clinical Laboratory: 2

**NUR 245 ◊, # - Promoting Adaptation: The Childbearing/Childrearing Family**
4 credits
Application of clinical decision making in promoting adaptation of individuals with health problems resulting in multiple adaptation problems associated with stages of childbearing and during the period of infancy through adolescence. Critical analysis of children's responses to health problems and family responses to childbearing/childrearing with expanded utilization of the nursing process. (One 200-level nursing course may be repeated with approval by the Nursing Admission Committee.) *(course fee required)*

Prerequisite: NUR 225◊, NUR 235◊ and BIS 222◊
Lecture: 2.5
Laboratory: 1
Clinical Laboratory: 2

**NUR 255 ◊, # - Promoting Adaptation: Acute Health Problems**
4 credits
Application of clinical decision making in promoting adaptation for individuals with acute health problems that result in multiple adaptation problems with emphasis on critical analysis of individual response to life threatening situations and expanded utilization of the nursing process. (One 200-level course can be repeated with approval by of the Nursing Admission Committee.) *(course fee required)*

Prerequisite: NUR 225◊ and NUR 235◊ and BIS 222◊
Lecture: 2.5
Laboratory: 1
Clinical Laboratory: 2

**NUR 285 ◊, # - Professional Nursing Career Development**
2 credits
Examine the current developments in the nursing profession and role transition from student to registered nurse. An overview of healthcare topics include self-assessment, career planning, professional role development, health provider organizations, fiscal responsibility, analysis of ethical-legal situations and political issues as they relate to the provision of care. (One 200-level nursing course may be repeated with approval of the Nursing Admission Committee.) *(course fee required)*

Prerequisite: NUR 155◊, NUR 156◊
Lecture: 2

**NUR 290 ◊, # - Leadership in Management of Patient Care**
2 credits
Nursing process in managing the care of a group of individuals and explore management styles used to coordinate and communicate with health care team members. Clinical experiences emphasize responsibilities of setting priorities, delegating and evaluating clinical performance. (One 200-level course can be repeated with approval by of the Nursing Admission Committee.) *(course fee required)*

Prerequisite: NUR 245◊, NUR 255◊, NUR 285◊
Lecture: 1
Clinical Laboratory: 2

# OPH - Ophthalmic Technician

**OPH 112 ◊, # - Ocular Anatomy & Physiology**
3 credits
Structure and function of the orbital, ocular, and visual system in health and pathology.

Prerequisite: admission to Ophthalmic Technician program
Lecture: 3

**OPH 113 ◊, # - Spectacle Skills**
2 credits
Lensometry, ophthalmic lens and frame materials, lens and frame measurements, and frame adjustment. *(course fee required)*

Prerequisite: OPH 114◊
Lecture: 1
Laboratory: 2

**OPH 114 ◊, # - Ophthalmic Optics**
3 credits
Basic optical principles of the human eye and ophthalmic lenses. Fundamental concepts of refractive errors and their corrections.

Prerequisite: admission to the Ophthalmic Technician program
Lecture: 3

**OPH 130 ◊, # - Ocular Pharmacology**
3 credits
Classification, indications, action, dosage, complications, therapeutic implications, administration, side effects and contraindications of ophthalmic drugs.

Prerequisite: OPH 112◊
Lecture: 3

**OPH 140# - Ophthalmic Procedures I**
4 credits
Principles and procedures of the preliminary ophthalmic examination including patient interview, entrance testing, slit lamp, tonometry, visual pathway, and visual field testing. *(course fee required)*

Prerequisite: admission to the Ophthalmic Technician program, OPH 112◊, OPH 114◊
Lecture: 2
Laboratory: 4

**OPH 141# - Refractometry**
2 credits
Theory and technique of refractometry with an emphasis on skill development. *(course fee required)*

Prerequisite: OPH 140
Lecture: 1
Laboratory: 2

**OPH 210# - Ophthalmic Procedures II**
4 credits
Principles and procedures of ophthalmic diagnostic testing and surgical assisting. Ocular pathology is included. *(course fee required)*

Prerequisite: OPH 141
Lecture: 2
Laboratory: 4

**OPH 225# - Ocular Disease**
3 credits
Ocular disease diagnosis and treatment.

Prerequisite: OPH 210
Lecture: 3

**OPH 231 ◊, # - Ophthalmic Seminar I**
1 credit
Correlates with the Clinical Practicum courses to prepare the student to best address the physical and psychological needs of the patient, improve communication skills, and serve as a member of the eye care team. *(course fee required)*

Corequisite: with OPH 246
Lecture: 1

**OPH 232 ◊, # - Contact Lenses**
4 credits
Contact lens dispensing, fitting, and evaluation. *(course fee required)*

Prerequisite: OPH 141
Lecture: 2.5
Laboratory: 3

**OPH 241 ◊, # - Ophthalmic Seminar II**
2 credits
Comprehensive review in preparation for the Joint Commission on Allied Health Personnel in Ophthalmology (JCAHPO) certification examination.

Corequisite: with OPH 247
Lecture: 2

**OPH 245# - Clinical Practicum I**
1 credit
The first of three supervised clinical experiences to develop competency in front office procedures, ophthalmic patient care, patient history, visual assessment, and entrance testing. *(course fee required)*

Prerequisite: OPH 140
Clinical Laboratory: 2

**OPH 246# - Clinical Practicum II**
2 credits
The second of three supervised clinical experiences to develop competency in front office procedures, ophthalmic patient care, patient history, visual assessment and entrance testing. (Fall 2017) *(course fee required)*

Prerequisite: OPH 245
Clinical Laboratory: 4

**OPH 247# - Clinical Practicum III**
2 credits
The third of three supervised clinical experiences to develop competency in front office procedures, ophthalmic patient care, patient history, visual assessment and entrance testing. *(course fee required)*

Prerequisite: OPH 246
Clinical Laboratory: 4

**OPH 251# - Ophthalmic Procedures III**
4 credits
Principles and techniques of advanced ophthalmic procedures including ocular imaging and ocular motility. *(course fee required)*

Prerequisite: OPH 210
9Lecture: 2
Laboratory: 4

## PED - Health, Sport & Exercise Science

**PED 100 ◊ - Foundations of Physical Activity**
1 credit
This course includes programs of calisthenics and weight training (isometric and isotonic) augmented by a jogging program. *(course fee required)*

Laboratory: 2

**PED 101 ◊ - Hatha Yoga**
1 credit
The practice and application of Hatha yoga techniques. Emphasis is placed on improvement of muscular strength, flexibility, endurance, and concentration. Breathing techniques, postures, and meditation are utilized. May be repeated for a maximum of four accrued credits. (Spring 2016) *(course fee required)*

Laboratory: 2

**PED 102 ◊ - Kundalini Yoga**
1 credit
Application and practice of Kundalini yoga techniques. May be repeated for a maximum of four accrued credits.

Laboratory: 2

**PED 103 ◊ - Beginning Karate**
1 credit
The practice and application of karate for beginning students, which include stretching, basic techniques, forms, sparring, and self-defense. Emphasis is placed on the student's balance, coordination, strength, and endurance. May be repeated for a maximum of four accrued credits. *(course fee required)*

Laboratory: 2

**PED 104 ◊, # - Intermediate Karate**
1 credit
The practice and application of karate for students at an intermediate level. Emphasis is on the student's balance, coordination, strength, and endurance. May be repeated for a maximum of four accrued credits. *(course fee required)*

Prerequisite: PED 103◊
Laboratory: 2

**PED 105 ◊ - Boot Camp Fitness**
1 credit
Improve cardiovascular fitness, build strength and flexibility, and improve body composition through a variety of intense interval training exercises in a group environment. Focus on improving performance and develop components of mental, social, and physical wellness. (Fall 2016) *(course fee required)*

Laboratory: 2

**PED 106 ◊ - Total Fitness**
1 credit
In a circuit training format provides individuals an opportunity to improve one's muscular strength, flexibility and cardiorespiratory endurance, as well as affect a change in body composition and lean muscle mass. May be repeated for a maximum of four accrued credits. *(course fee required)*

Laboratory: 2

**PED 107 ◊ - Beginning Swim**
1 credit
Designed for the non-swimmer and exposes the individual to basic swim skills and safe practices in and around water. (formerly Beginning Swimming) *(course fee required)*

Laboratory: 2

**PED 108 ◊ - Swimming for Fitness**
1 credit
Provides an opportunity to utilize the basic swimming strokes to improve cardiorespiratory, muscular endurance, as well as balance and flexibility. May be repeated for a maximum of four accrued credits. *(course fee required)*

Laboratory: 2

**PED 113 ◊ - Aquacize**
1 credit
Low impact, high energy challenge in shallow water to improve cardiorespiratory endurance, muscular strength, flexibility, balance and coordination. Students should be comfortable in shallow water. May be repeated for a maximum of four accrued credits. (Fall 2017) *(course fee required)*

Laboratory: 2

**PED 115 ◊ - Deep Water Exercise**
1 credit
A buoyant, moderate to vigorous intensity workout to improve cardiorespiratory endurance, muscular strength, flexibility, balance and coordination. Students should be able to tread water for one minute. May be repeated for a maximum of four accrued credits. (Fall 2017) *(course fee required)*

Laboratory: 2

**PED 116 ◊ - Group Exercise**
1 credit
Several types of group exercise formats, including Aerobic (step, floor), resistive (body bar, kettlebell), mind-body (yoga, Pilates) and specialty (kickboxing, stability ball, aquatic) classes. Designed for the Group Exercise Instructor candidate. May be repeated for a maximum of four accrued credits. (Fall 2017) *(course fee required)*

Laboratory: 2

**PED 117 ◊ - Walking for Fitness**
1 credit
Theory, practice and benefits of walking. A life-spanning activity to improve health and fitness. May be repeated for a maximum of four accrued credits. (Spring 2016) *(course fee required)*

Laboratory: 2

**PED 118 ◊ - Wrestling**
1 credit
Basic and advanced skills and a theoretical knowledge of wrestling including strategy, rules, and safety. May be repeated for a maximum of four accrued credits. *(course fee required)*

Laboratory: 2

**PED 120 ◊ - Personal Defense Activities**
1 credit
Self-defense techniques, including avoidance methods, break falls and basic throws. May be repeated for maximum for four accrued credits. (Spring 2016) *(course fee required)*

Laboratory: 2

**PED 121 ◊ - Vinyasa Yoga**
1 credit
The practice and application of vinyasa yoga poses. Emphasis is on the student's sense of focus, coordination, balance, and strength, while cultivating internal calm. It is recommended that students have some yoga experience prior to enrolling in this course. May be repeated for four accrued credits. *(course fee required)*

Laboratory: 2

**PED 124 ◊ - Zumba Fitness**
1 credit
Utilizes basic Zumba aerobic dance to improve cardiorespiratory, muscular endurance, as well as balance and flexibility. May be repeated for a maximum of four accrued credits. (Spring 2016) *(course fee required)*

Laboratory: 2

**PED 125 ◊ - Kickboxing Fitness**
1 credit
The practice and application of kickboxing for beginning students. Kickboxing skills are used to improve balance,

coordination, strength, and endurance. May be repeated for a maximum of four accrued credits.

Laboratory: 2

**PED 127 ◊ - Softball**
1 credit
Skill development in the area of offensive and defensive techniques in softball. Throwing mechanics, hitting, running, scoring, and the basic rules of the game. May be repeated for a maximum of four accrued credits. (Spring 2016) *(course fee required)*

Laboratory: 2

**PED 128 ◊ - Soccer**
1 credit
Skill development of offensive and defensive techniques in soccer. Offensive attacks, defensive strategies, shooting, passing, scoring, and the basic rules of the game. May be repeated for a maximum of four accrued credits. (Spring 2016) *(course fee required)*

Laboratory: 2

**PED 129 ◊ - Volleyball**
1 credit
Skill development of offensive and defensive techniques in volleyball. Sport skills, such as passing, serving, spiking, blocking, setting, and hitting, as well as scoring and basic rules of the game. May be repeated for a maximum of four accrued credits. (Spring 2016) *(course fee required)*

Laboratory: 2

**PED 130 ◊ - Basketball**
1 credit
Skill development of offensive and defensive techniques in basketball. Dribbling, shooting, passing, scoring, and the basic rules of the game. May be repeated for a maximum of four accrued credits. (2016) *(course fee required)*

Laboratory: 2

**PED 131 ◊ - Aerobics**
1 credit
An introduction to the fundamentals of aerobics. Emphasis is placed on developing cardiovascular fitness, flexibility, and muscular endurance. May be repeated for a maximum of four accrued credits. (formerly Aerobics I) *(course fee required)*

Laboratory: 2

**PED 134 ◊ - Aerobic Dance**
1 credit
A high energy challenge to improve cardiorespiratory endurance, muscular strength, flexibility, balance and coordination. May be repeated for a maximum of four accrued credits. (Fall 2017) *(course fee required)*

Laboratory: 2

**PED 138 ◊ - Golf**
1 credit
The rules, techniques, and fundamentals of golf, including swing, grip, and putting. May be repeated for a maximum of four accrued credits. (Spring 2016) *(course fee required)*

Laboratory: 2

**PED 150 ◊ - Introduction to Physical Education**
2 credits
Course is designed to evaluate what the field of physical education is and how it relates to biological, philosophical, psychological and sociological interpretations of the total education program and life itself. Topics range from the role of the physical educator through the process of planning, developing, implementing and administrating physical education programs.

Lecture: 2

**PED 152 ◊ - Principles of Basketball**
2 credits
Individual skills and team techniques, as students gain knowledge and an understanding of coaching and participation in the sport of basketball. (Spring 2016) *(course fee required)*

Lecture: 1
Laboratory: 2

**PED 153 ◊ - Foundations of Exercise**
3 credits
Anatomy, exercise physiology, kinesiology, and nutrition, as it relates to cardiorespiratory fitness, muscular strength, muscular endurance, and flexibility. (Fall 2017)

Lecture: 3

**PED 156 ◊ - Principles of Wrestling**
2 credits
Wrestling skills, techniques, rules, safety and regulations of the sport. Students gain knowledge and understanding of the sport of wrestling. Laboratory participation is required. (Spring 2016) *(course fee required)*

Lecture: 1
Laboratory: 2

**PED 158 ◊ - Principles of Baseball**
2 credits
Baseball sport skills, offensive and defensive strategies, team techniques, rules, and scoring of baseball. Laboratory participation and preparation of notebook are required. (Spring 2016) *(course fee required)*

Lecture: 1
Laboratory: 2

**PED 159 ◊ - Selected Team and Recreation Sports**
3 credits
Skills, rules, and strategy in various sports. Students gain knowledge and an understanding of coaching and participation of these sports. Some sports that may be

included are tennis, golf, fishing, archery, softball, basketball, soccer, hiking, cycling, swimming, field hockey, and lacrosse. (Spring 2016) *(course fee required)*

Lecture: 1
Laboratory: 4

**PED 168 ◊ - Theory and Practice of Weight Training**
2 credits
Theory and application related to muscular strength, endurance, flexibility, body composition, lifting and spotting technique, program design and exercise mechanics. (Fall 2017) *(course fee required)*

Lecture: 1
Laboratory: 2

**PED 169 ◊ - Elementary School Games**
3 credits
Physical education activities suitable for the elementary school are covered. Included are teaching, planning and participating in elementary physical activities. *(course fee required)*

Lecture: 2
Laboratory: 2

**PED 172 ◊ - Group Fitness Instructor**
3 credits
Intended for future group fitness instructors. Group exercise leadership and fitness instruction with emphasis on the concepts and techniques necessary to design, implement, and evaluate safe and effective exercise programs in group and individual settings. Preparation course for the American Council on Exercise (ACE) Group Fitness Instructor Certification Exam. (Fall 2017) *(course fee required)*

Lecture: 3

**PED 180 ◊ - Strength Conditioning and Performance**
3 credits
Technique, guidelines, and principles used to enhance strength and power through proper weight training, plyometrics, and sport specific exercises. *(course fee required)*

Lecture: 2
Laboratory: 2

**PED 189 ◊, # - Water Safety Instructor**
2 credits
Certifies instructor candidates to teach American Red Cross Swimming and water safety courses. It includes Fundamentals of Instructor Training (FIT)

Prerequisite: competency in general stroke skills and rescue.
Lecture: 1
Laboratory: 2

**PED 194 ◊ - Principles of Coaching**
3 credits
Principles and theories of coaching. Coaching philosophy, style, communication methods, motivation, team management, sport specific training issues, and the principles of leadership and teaching. (Spring 2016)

Lecture: 3

**PED 195 ◊ - Introduction to Sport Management**
3 credits
Principles and concepts that apply to sport management, including functions of planning, organizing, staffing and controlling, cost controls and human relations for improvement of operating efficiency. (Spring 2016)

Lecture: 3

**PED 196 ◊ - Sport and Exercise Psychology**
3 credits
Examination of the psychological concepts and coaching attitudes and techniques for improving and fostering exercise and athletic performance. Theories and practices, including psychological motivation, choice, confidence building, goal setting, imagery implementation, and emotional control. (Spring 2016)

Lecture: 3

**PED 197 ◊ - Sociology of Sport**
3 credits
Examines the primary social institutions of sport, including participants, functions, consequences and effects on society. Influence of sport on familial, religious, education, economic, and political institutions. (Spring 2016)

Lecture: 3

**PED 198 ◊ - Lifeguarding**
1 credit
Designed to help students learn, practice, and develop the skills of water safety. American Red Cross Lifeguard Training certificate will be awarded upon completion of required skills. Students must be fifteen years of age prior to obtaining certificate and have swim skills competency. *(course fee required)*

Laboratory: 2

**PED 200 ◊ - Introduction to Biomechanics**
3 credits
Provides background in musculoskeletal anatomy and principles of biomechanics in relation to human movement.

Lecture: 3

**PED 201 ◊ - Sports Officiating**
2 credits
Students acquire skills, rules, strategies, knowledge and an understanding of officiating various sports. Sports that may be included are lacrosse, softball, baseball, basketball, soccer, football, wrestling, and volleyball. (Spring 2016) *(course fee required)*

Lecture: 1
Laboratory: 2

**PED 210 ◊ - Exercise Testing and Prescription**
3 credits
Theoretical and practical concepts of exercise assessment, program design and instruction for the general population. (Fall 2017) *(course fee required)*

Lecture: 2
Laboratory: 2

**PED 230 ◊, # - Techniques in Sport & Exercise Science**
1 credit
Develop the skills necessary to become a competent exercise trainer, while incorporating the knowledge of exercise from previous coursework. (Fall 2017) *(course fee required)*

Prerequisite: HTH 120◊, PED 153◊, PED 210◊; Personal Training Certificate students only
Laboratory: 2

**PED 275 ◊ - Facilities Management**
3 credits
An introduction to the planning and management of sport and exercise facilities. Focuses on elements of planning, design and management, while examining functions related to maintenance, security, operations and evaluation.

Lecture: 3

**PED 296 ◊ - Special Topics in Physical Education**
0.5 - 4 credits
Selected topics in the area of physical education, exercise science, sport, and fitness. Topics will vary from semester to semester and will be available during registration. May be repeated up to three times, for a maximum of nine credits, when content is different. A maximum of 6 hours of lab activity courses can apply to graduation. Lab fee may apply depending on topic. (Spring 2016) *(course fee may be required depending on topic)*

Lecture: 0.5 – 4
Laboratory: 0 - 8

# PHL - Philosophy & Logic

**PHL 101 ◊ - Introduction to Philosophy**
3 credits
Inquiry of key principles and problems of human wisdom as articulated especially in the Western tradition concerning the validity of knowledge, the nature of truth, the nature of identity, free will and determination, the structure of human societies, moral, aesthetic and religious values. (Fall 2015)

Lecture: 3
IAI: H4 900

**PHL 102 ◊ - Logic**
3 credits
This course provides a practical application of logical principles and methods of constructing and evaluating arguments. Language, induction, deduction and informal fallacies are studied.

Lecture: 3
IAI: H4 906

**PHL 103 ◊ - Ethics**
3 credits
Investigation of personal ethical decision making, principal ethical theories and concepts of human conduct and character, as well as their application to current moral problems regarding society, the environment, and the economy.

Lecture: 3
IAI: H4 904

**PHL 104 ◊ - Social and Political Philosophy**
3 credits
Classical and modern social and political theories are covered. It also investigates some current social and political problems.

Lecture: 3

**PHL 105 ◊ - World Religions**
3 credits
An introductory survey, study, and comparison of the philosophies, traditions, and histories of major Eastern and Western religions of the world including an exploration of their beliefs, practices, and contributions to the world. (Spring 2016)

Lecture: 3
IAI: H5 904N

**PHL 106 ◊ - Biomedical Ethics**
3 credits
This course provides an examination of moral problems in health care and biological research, such as abortion, euthanasia, professional/patient duties and rights, medical experimentation, genetics and the allocation of scarce medical resources.

Lecture: 3

**PHL 113 ◊ - Environmental Ethics**
3 credits
Knowledge of the principal ethical theories and concepts concerning the environment and non-human animals, as well as a basic review of principles of earth and biological sciences, and the system for the production of goods in the global market. Application of those theories, concepts and principles to contemporary environmental issues.

Lecture: 3
IAI: H4 904

**PHL 296 ◊ - Special Topics in Philosophy**
1 - 3 credits
In depth study of philosophical topics and problems in philosophy through readings, discussion, guided research and field trips. Topics vary from semester to semester. May be repeated up to three times, for a maximum of nine credits, when content is different. (Fall 2016)

Lecture: 1 – 3

# PHS - Physical Science

### PHS 100 ◊ - Introduction to Earth Science

4 credits

Physical systems of the Earth and beyond; including rocks, water, weather, and outer space. Real-world examples of how matter and energy move through time and space and how these systems interact with human societies; including mineral resources, natural hazards, water quality, energy, and climate. (Fall 2017) *(course fee required)*

Lecture: 2
Laboratory: 4
IAI: P1 905L

### PHS 141 ◊ - Application of Physical Science Concepts

4 credits

This course covers electricity, including its production, use and alternate technology to meet future energy needs. Astronomy and the fundamental principles of chemistry and its impact on our environment are introduced. *(course fee required)*

Lecture: 3
Laboratory: 2
IAI: P9 900L

### PHS 142 ◊ - Science of Light and Music

4 credits

This is a study of sound and light. The sound segment includes the nature of sound, acoustics and musical sound production. The light segment investigates the principles of light and their application to cameras, telescopes and lasers. *(course fee required)*

Lecture: 3
Laboratory: 2
IAI: P9 900L

# PHY - Physics

### PHY 100 ◊, # - General Physics

4 credits

Laws of physics, including a study of classical mechanics, heat, sound, electricity, magnetism and light. Designed for the non-science major. *(course fee required)*

Prerequisite: MAT 055 or above
Lecture: 2
Laboratory: 4
IAI: P1 900L

### PHY 101 ◊, # - General Physics (Mechanics, Heat & Sound)

5 credits

Mathematically-based (non-calculus) course, which covers mechanics, heat and sound, including linear motion, rotation, gravitation, conservation laws, waves and thermodynamics. Course content is geared for students in arts, science, architecture and pre-professional programs. *(course fee required)*

Prerequisite: MAT 114◊ (minimum grade C) and placement at RHT 101◊ level
Lecture: 3
Laboratory: 4
IAI: P1 900L

### PHY 102 ◊, # - General Physics (Electricity, Magnetism, Optics & Modern Physics)

5 credits

Principles of physics designed to provide students with a mathematically based (non-calculus) understanding of electricity, magnetism, optics and modern physics including electric and magnetic fields, Direct Current (DC) and Alternating Current (AC) circuits, geometrical and wave optics, polarization, and an introduction to relativity and quantum mechanics. (Summer 2017) *(course fee required)*

Prerequisite: PHY 101◊ minimum grade C and placement at RHT 101◊ level
Lecture: 3
Laboratory: 4

### PHY 106 ◊, # - General Physics (Mechanics)

4 credits

Learn classical mechanics, including equilibrium, linear motion, projectile motion, Newton's Laws, rotational motion, conservation laws, vibrations and gravitation. The material is calculus-based with an emphasis on problem solving. (Summer 2017) *(course fee required)*

Prerequisite: placement at RHT 101◊ level; MAT 133◊ OR
Corequisite: with MAT 133◊
Lecture: 2
Laboratory: 4
IAI: P2 900L

### PHY 107 ◊, # - General Physics (Electricity, Magnetism, and Thermodynamics)

4 credits

Electric and magnetic fields, direct current (DC) and alternating current (AC) circuits, Maxwell's Equations and thermodynamics are covered. The material is calculus-based with an emphasis on problem solving. (Summer 2017) *(course fee required)*

Prerequisite: PHY 106◊ (minimum grade C); MAT 235◊ OR
Corequisite: with MAT 235◊
Lecture: 2
Laboratory: 4

### PHY 108 ◊, # - General Physics (Waves, Optics, Relativity & Quantum Mechanics)

4 credits

Elastic and sound waves, electromagnetic waves, geometrical and wave optics, interference, polarization, relativity, quantum mechanics, the uncertainty principle, Schrodnger's equation, the hydrogen atom and atomic physics are discussed. The material is calculus-based with an emphasis on problem solving. This is a course for students in engineering, mathematics, physics and chemistry. *(course fee required)*

Prerequisite: PHY 107◊ (minimum grade C); MAT 235◊ OR
Corequisite: with MAT 235◊
Lecture: 2
Laboratory: 4

**PHY 251 ◊, # - Engineering Mechanics of Materials**
3 credits
An engineering emphasis mechanical physics course that explores external forces acting on deformable bodies. Design principles based on mechanics of solids, including normal stresses, shear stresses, and deformations produced by tensile, compressive, torsional, and bending loading of members; beam deflections, including elastic energy and impact, multi-dimensional stress states, and buckling of columns. (Fall 2017)

Prerequisite: placement at RHT 101◊ level; MAT 133◊ OR
Corequisite: with MAT 133◊
Lecture: 3

# PSC - Political Science

**PSC 120 ◊ - Principles of Political Science**
3 credits
Introduction to the history, theories, basic principles and methods of political science, focusing on the nature and development of political science as a discipline, the political process, political institutions and the inter-relationships among elements in the political system.

Lecture: 3
IAI: S5 903

**PSC 150 ◊ - American National Politics**
3 credits
Examination of the leading institutions of American National Politics including Congress, Presidency, federal courts, and the bureaucracy; media, public opinion, political parties, and interest groups; historical circumstances surrounding the adoption of the US Constitution; civil liberties, civil rights, and due process provision in the US Constitution; activities of the national government in foreign and defense policy, environmental protection, management of the economy and economic regulation. (Fall 2015)

Lecture: 3
IAI: S5 900

**PSC 151 ◊ - American State and Urban Politics**
3 credits
Identifies the significant organizational features of the executive, legislative and judicial branches of state, county, township, municipal and special district governments; which compares and contrasts state governmental branches with the same branches of the national government; which compares the organization and powers of the 50 state governments with each other; which distinguishes the services offered by national, state and urban governments; which examines the numerous social services programs of state and urban governments with emphasis on the problems arising in the delivery of these services.

Lecture: 3
IAI: S5 902

**PSC 184 ◊ - Global Politics**
3 credits
An examination of international governmental institutions (i.e. the UN, The World Court), international actors (i.e. nation-states, The European Community), international relationships (i.e. diplomacy, sanctions, exchanges, war), and contemporary world problems (i.e. Arab-Israeli, Persian Gulf, economic development, ecocide). Includes examination of Central American selected African, Middle-Eastern and selected Asian Nations in world politics, as well as Great Power Nations.

Lecture: 3
IAI: S5 904

**PSC 296 ◊ - Special Topics in Political Science**
1 - 4 credits
Provides exposure to a variety of topics in the field of political science. Topics vary from semester to semester and must be approved by the Dean of Arts and Sciences. Course may be repeated an additional 3 times, but not more than 8 hours may be used for a student to complete the degree requirement of a program.

Lecture: 1 - 4

# PSY - Psychology

**PSY 100 ◊ - Introduction to Psychology**
3 credits
A survey of the study of human and nonhuman behavior, as well as the biological and mental processes that underlie behavior, with an emphasis on the scientific nature of contemporary psychological investigation. Historical overview of psychology and its major theoretical perspectives, the scientific method as used in psychology, biological/neurological processes, sensation and perception, states of consciousness, learning, memory, thinking, intelligence, language, human development, motivation and emotion, gender and sexuality, personality, social psychology, psychological disorders, therapies, and health psychology. (Fall 2015)

Lecture: 3
IAI: S6 900

**PSY 105 ◊ - Personal Applications of Psychology**
3 credits
A practical and personal application of psychological principles. Includes an introduction to theoretical and empirical research in general psychology and psychology of adjustment and a selection of optional modules on personal adjustment, learning, motivation, interpersonal skills, abnormal psychology, interpersonal communication, and special topics in psychology.

Lecture: 3

**PSY 201 ◊, # - Introduction to Social Psychology**
3 credits
Integration of theory and empirical research as they relate to research methods, attitude formation and change, social cognition, interpersonal relations, group processes and social influence. (Spring 2016)

Prerequisite: PSY 100◊
Lecture: 3
IAI: S8 900

**PSY 205 ◊, # - Positive Psychology**
3 credits
Positive psychology expands the science of psychology into the realm of optimal experiences by studying systematically the psychology of happiness, optimism, hope, resiliency, strengths, wellbeing, and overall promotion of the human potential. Provides both a theoretical and practical introduction to the topics of positive psychology.

Prerequisite: PSY 100◊
Lecture: 3

**PSY 207 ◊, # - Health Psychology**
3 credits
Examines theory and research on the relationship between physical health, behavior, and cognitive processes. Emphasizes the biopsychosocial factors related to the maintenance of health and the prevention and treatment of illness. Incorporates the impact of personal lifestyle on physical health, the interpersonal processes involved in providing health care, self-efficacy, and the emerging role of behavioral medicine in health care. Specific topics include injury, stress, coping, pain management, addictions, adherence, patient-physician relationships, death, grief, and chronic illnesses such as Alzheimer's, diabetes, cancer, chronic lung and heart disease, and AIDS.

Prerequisite: PSY 100◊
Lecture: 3

**PSY 210 ◊, # - Theories of Personality**
3 credits
An integration of theory and empirical research as they relate to personality development, functioning and assessment. Theories explored include: types/traits, psychoanalytic, neopsychoanalytic, ego analytic, behavioral, relational-cultural, social learning, humanistic, cognitive-behavioral, and Zen. (formerly Psychology of Personality) (Fall 2016)

Prerequisite: PSY 100◊
Lecture: 3
IAI: PSY907

**PSY 216 ◊, # - Child Psychology**
3 credits
An integration of theory and empirical research as they relate to the study of the physical and psychological development of the child from conception to adolescence. Includes genetic and biological factors as well as physical, cognitive, linguistic, emotional, social, and moral development.

Prerequisite: PSY 100◊
Lecture: 3
IAI: S6 903

**PSY 222 ◊, # - Adolescent Psychology**
3 credits
An integration of theory and empirical research as they relate to the changes in biological, cognitive, social, moral, and emotional processes throughout adolescence. In addition, the course covers the role of formal education and the development of self-identity, intimacy, and sexuality.

Prerequisite: PSY 100◊
Lecture: 3
IAI: S6 904

**PSY 228 ◊, # - Psychology of Adulthood & Aging**
3 credits
An integration of theory and empirical research and practical applications as they relate to the study of changes in the biosocial, cognitive, and psychosocial domains of development, including early, middle, and late adulthood. Attention is given to the continuity of development from childhood and adolescence through adulthood. An emphasis is placed on the normal and pathological changes associated with aging, along with the problems confronted by the aged. Areas covered are sensation and perception, learning and memory, intelligence, creativity and wisdom, personality, emotions and motivation, generational relationships, work and leisure, social support, long-term care, and death and dying.

Prerequisite: PSY 100◊ or consent of instructor
Lecture: 3
IAI: S6 905; PSY 905

**PSY 234 ◊, # - Abnormal Child & Adolescence Psychology**
3 credits
Introduction to the etiology, diagnoses and treatment of childhood and adolescent psychological disorders. Consists of an integration of theory and empirical research as it relates to the study of biological, psychosocial and socio-cultural origins of abnormal behavior. The assessment, categorization, treatment, and prevention of abnormal child and adolescent behavior will be covered.

Prerequisite: PSY 100◊
Lecture: 3

**PSY 238 ◊, # - Abnormal Psychology**
3 credits
An integration of theory and empirical research as they relate to the study of biological, psychosocial, and sociocultural origins of abnormal behavior as well as the assessment, categorization, treatment and prevention of abnormal behavior.

Prerequisite: PSY 100◊
Lecture: 3
IAI: PSY905

**PSY 245 ◊, # - Industrial Psychology**
3 credits
An integration of theory and empirical research as they relate to the application of psychological methods and principles in business and industry. Emphasis is on personnel selection and factors influencing efficiency.

Prerequisite: PSY 100◊ or consent of instructor
Lecture: 3
IAI: PSY906

**PSY 250 ◊, # - Psychology of Gender**
3 credits
Designed to increase knowledge and appreciation of the social, biological, psychological, and cultural origins and implications of gender differences and similarities. Providing the fundamentals for study in the field of psychology of gender. Addressing issues including, but not limited to: theoretical and methodological issues, developmental issues, social roles and systems, physical and mental health, sexuality, victimization, and feminist perspectives on psychological issues.

Prerequisite: PSY 100◊
Lecture: 3

**PSY 296 ◊ - Special Topics in Psychology**
3 credits
A study of topics and problems in psychology through readings, discussion, guided research, and field trips is provided. Topics vary from semester to semester, and must be approved by the Dean of Arts and Sciences. PSY 100◊ is recommended prior to this course.

Lecture: 3

## RAS - Radiologic Technology

**RAS 100# - Radiology Patient Care**
3 credits
Provides the basic concepts of radiology patient care, including consideration for the physical and psychological needs of the patient and their family. Professionalism in a healthcare setting, communication, safety, and basic care of the radiology patient are demonstrated and practiced in a lab setting. *(course fee required)*

Prerequisite: admission to the Radiologic Technology program
Lecture: 2.5
Laboratory: 1

**RAS 111 ◊, # - Radiographic Anatomy and Positioning I**
2 credits
Pertinent anatomy and terminology of the body systems involving the abdomen, chest and upper extremities are covered. Emphasis is on routine radiographic positioning and associated pathology. *(course fee required)*

Prerequisite: admission to the Radiologic Technology program
Lecture: 1.5
Laboratory: 1

**RAS 114 ◊, # - Basic Radiation Protection**
2 credits
Molecular and cellular radiation biology, quantities, units and monitoring in radiation protection.

Prerequisite: admission to the Radiologic Technology program
Lecture: 2

**RAS 115 ◊, # - Imaging Production**
2 credits
Introduction to the fundamental theory of x-ray production and the exposure factors relating to the evaluation of diagnostic radiographs. *(course fee required)*

Prerequisite: admission to the Radiologic Technology program
Lecture: 1.5
Laboratory: 1

**RAS 117 ◊, # - Fundamentals of Radiation**
2 credits
Fundamental principles between radiation and matter, electromagnetism, x-ray tubes, circuitry, rectification and generators. *(course fee required)*

Corequisite: with RAS 122◊, RAS 124◊, RAS 125◊ and RAS 160◊
Lecture: 2

**RAS 122 ◊, # - Radiographic Anatomy & Positioning II**
2 credits
Pertinent anatomy and terminology of the body systems involving the lower extremities, gastrointestinal, urinary and biliary systems. Emphasis is on routine radiographic positioning and pathology. *(course fee required)*

Prerequisite: RAS 111◊ OR
Corequisite: with RAS 117◊, RAS 124◊, RAS 125◊ and RAS 160◊
Lecture: 1.5
Laboratory: 1

**RAS 124 ◊, # - Radiation Instrumentation**
2 credits
Fundamentals in radiographic imaging formation and exposure, including photographic and geometric properties. *(course fee required)*

Prerequisite: RAS115 OR
Corequisite: with RAS 117◊, RAS 122◊, RAS 125◊ and RAS 160◊
Lecture: 1.5
Laboratory: 1

**RAS 125 ◊, # - Radiological Health**
2 credits
The latest information concerning regulations and guidelines from the major standards-setting and advisory agencies in radiation protection.

Prerequisite: RAS 114◊ OR
Corequisite: with RAS 117◊, RAS 122◊, RAS 124◊ and RAS 160◊
Lecture: 2

**RAS 150 ◊, # - Applied Radiologic Technology I**
1 credit
The first of five supervised clinical experiences to develop competency in Radiologic Technology procedures, patient care, imaging, radiation protection and safety. Chest, abdomen and upper extremity proficiencies must be completed. The student needs to show proof of Basic Life Support (BLS) for Healthcare Provider that is current for the duration of the semester. *(course fee required)*

Prerequisite: admission to the Radiologic Technology program
Clinical Laboratory: 2

**RAS 160 ◊, # - Applied Radiologic Technology II**
1 credit
The second of five supervised clinical experiences to develop competency in Radiologic Technology procedures, patient care, imaging, radiation protection and safety. Fluoroscopy for the esophagus, upper gastrointestinal (UGI), lower gastrointestinal (LGI), small bowel series, Intravenous urography (IVU), and lower extremity proficiencies must be completed. The student needs to show proof of Basic Life Support (BLS) for Healthcare Provider that is current for the duration of the semester. *(course fee required)*

Prerequisite: RAS 100, RAS 111◊, RAS 114◊, RAS 115◊, RAS 150◊
Clinical Laboratory: 2

**RAS 170 ◊, # - Applied Radiologic Technology III**
2 credits
The third of five supervised clinical experiences to develop competency in Radiologic Technology procedures, patient care, imaging, radiation protection and safety. Portable chest, abdomen, pediatric procedures, operating room experience and lower extremity proficiencies must be completed. The student needs to show proof of Basic Life Support (BLS) for Healthcare Provider that is current for the duration of the semester. *(course fee required)*

Prerequisite: RAS 117◊, RAS 122◊, RAS 124◊, RAS 125◊, RAS 160◊
Clinical Laboratory: 4

**RAS 232 ◊, # - Radiographic Anatomy & Positioning III**
2 credits
Pertinent anatomy and terminology of the body systems involving the shoulder, pelvic girdle, ribs, sternum, and vertebral column. Emphasis is on routine radiographic positioning and associated pathology. *(course fee required)*

Prerequisite: RAS 122◊ OR
Corequisite: with RAS 243◊, RAS 253◊, RAS 260◊ and RAS 280◊
Lecture: 1.5
Laboratory: 1

**RAS 242 ◊, # - Radiographic Anatomy and Positioning IV**
2 credits
Pertinent anatomy and terminology of the body systems involving the skull, facial bones, and sinuses. Emphasis is on radiographic positioning, associated pathology and surgical procedures. *(course fee required)*

Prerequisite: RAS 232◊ OR
Corequisite: with RAS 278◊ and RAS 290◊
Lecture: 1.5
Laboratory: 1

**RAS 243 ◊, # - Digital Radiography**
3 credits
Essential radiographic principles of computerized and digital imaging. *(course fee required)*

Corequisite: with RAS 232◊, RAS 260◊ and RAS 280◊
Lecture: 3

**RAS 253 ◊, # - Special Radiologic Procedures**
2 credits
Introduces radiologic technology students to the basics of a variety of imaging modalities which include computer axial tomography (CT), magnetic resonance imaging (MR), Cardiac catheterization, and Interventional Radiology (IR).

Corequisite: with RAS 242◊, RAS 278◊ and RAS 290◊
Lecture: 2

**RAS 260 ◊, # - Radiographic Pathology**
2 credits
Comprehensive explanation of radiographic pathology diagnosed with medical imaging.

Corequisite: with RAS 232◊, RAS 243◊, RAS 253◊ and RAS 280◊
Lecture: 2

**RAS 278 ◊ - Radiologic Seminar**
3 credits
Comprehensive review of radiologic patient care, protection, imaging, physics and equipment in preparation for the radiologic technology national registry examination.

Lecture: 3

**RAS 280 ◊, # - Applied Radiologic Technology IV**
2 credits
The fourth of five supervised clinical experiences to develop competency in Radiologic Technology procedures, patient care, imaging, radiation protection and safety. Shoulder, pelvis, ribs, sternum, cervical spine, thoracic spine and lumbar spine proficiencies must be completed. The student needs to show proof of Basic Life Support (BLS) for Healthcare Provider that is current for the duration of the semester. *(course fee required)*

Prerequisite: RAS 170◊
Clinical Laboratory: 4

### RAS 290 ◊, # - Applied Radiologic Technology V

3 credits

The last of five supervised clinical experiences to develop competency in Radiologic Technology procedures, patient care, imaging, radiation protection and safety. C-arm, basic skull, facial bones, paranasal sinuses, orbits, myelography, cystography, arthrography, and Endoscopic Retrograde Cholangiopancreatography (ERCP) proficiencies must be completed. The student needs to show proof of Basic Life Support (BLS) for Healthcare Provider that is current for the duration of the semester. *(course fee required)*

Prerequisite: RAS 232◊, RAS 243◊, RAS 260◊, RAS 280◊
Clinical Laboratory: 6

## REN - Renewable Energy Technology

### REN 100 - Introduction to Renewable Energy

3 credits

Renewable energy technologies. Emphasizes exploration of principles and concepts, as well as the application of renewable energy technologies (RET). The pros and cons of renewable energy, energy production and costs, energy conversion, environmental issues and concerns, United States electrical grid, biomass and biofuels, geothermal, wind power, solar power, nuclear power, and hydropower systems. (Fall 2017)

Lecture: 3

### REN 110# - ARC Flash Prevention

1 credit

The dangers of ARC Flash injuries to the human body. Identification of risk when working on energized electrical components, secure any hazardous voltages, such as Lock-Out Tag-Out (LOTO). National Fire Protection Association (NFPA) 70E manual is used to determine the nominal voltage, perform a hazard risk assessment, determine the Hazard Risk Class and use the appropriate Cal rated clothing and equipment, as well as securing the work area and perform a live-dead-live check on the electrical components. Maintenance and care of all NFPA 70E Personnel Protective Equipment (PPE), as well as preparation for work on energized electrical components that cannot be de-energized, such as Infrared Imaging. (Fall 2017) *(course fee required)*

Prerequisite: ENT 104◊ and ARC 102 OR
Corequisite: with ENT 104◊ and ARC 102
Lecture: 0.5
Laboratory: 1

### REN 120# - Photovoltaic Design Fundamentals

3 credits

The study of photovoltaic solar energy design basics, photovoltaic (PV) cells, modules, and system components, electrical circuits, grid-tied/grid-interactive PV system design and sizing, solar electric products and applications, and understanding energy conversion from sunlight to electricity, and working with solar conversion equipment. Grid-Tied and Off-Grid systems, including back-up solar energy design and applications, battery-based system components, bimodal PV system design and sizing for use on off-grid homes or other off-grid applications. (Fall 2017) *(course fee required)*

Prerequisite: REN 110; OR Corequisite: with REN 110
Lecture: 2
Laboratory: 2

### REN 130# - National Electrical Code and Grid-Tie Installations

4 credits

All sections of the National Electrical Code and local codes applicable to PV electrical installations. Photovoltaic installation information necessary to tie into the electrical grid system. Layout an installation for maximum performance using standard industry tools, such as the Solar Path Finder. Conduit bending, wiring and roof penetrations. (Fall 2017) *(course fee required)*

Prerequisite: REN 120; ENT 202 OR
Corequisite: with ENT 202
Lecture: 3
Laboratory: 2

### REN 200# - Photovoltaic System Integrator

3 credits

Project development and management fundamentals for working with businesses, government, contractors, and manufacturers to design, build, and install complete alternative energy systems. Photovoltaic, small wind, and micro-hydro system designing, permitting, budgeting, and cost estimating requirements. Project development for large, utility scale solar project development, and how the process relates to small scale roof top solar. Basic project management principles and techniques and how they apply to solar projects. (Fall 2017)

Prerequisite: REN 100; REN 120 OR
Corequisite: with REN 120
Lecture: 3

### REN 210# - Advanced Photovoltaic On/Off Grid Installations

3 credits

Photovoltaic advanced topics, including panel racking and installation, battery storage, charge controllers, mechanical integration of arrays on buildings, and key elements involved in choosing a mounting system. (Fall 2017) *(course fee required)*

Prerequisite: REN 130
Lecture: 2
Laboratory: 2

### REN 220# - Wind Power Generation Design Fundamentals

3 credits

Wind turbine module descriptions, functions and system installation, operation, and troubleshooting, including wind energy harvesting and the conversion process from the generator system to electricity. (Fall 2017)

Prerequisite: ARC 102, ENT 115◊, ENT 202, REN 110
Lecture: 3

### REN 230# - Wind Turbine Maintenance

3 credits

Turbine safety, wind tower climbing, electrical wiring specific to wind energy systems, alternating current (AC) and three-phase systems applied to wind systems. (Fall 2017) *(course fee required)*

Prerequisite: REN 130, REN 220
Lecture: 2
Laboratory: 2

### REN 240# - Energy Auditing and Building Weatherization Fundamentals

3 credits

Provides knowledge and experience necessary to prepare professionals conducting home weatherization energy audits to pass the Building Performance Institute (BPI), Building Analyst exams, and prepares students to become a certified Building Analyst. Weatherization and energy auditor professionals as well as Triton students will benefit from the training and certification. (Fall 2017) *(course fee required)*

Prerequisite: ARC 102, PHY 101◊ OR
Corequisite: with ARC 102 and PHY 101◊
Lecture: 2.5
Laboratory: 1

## RHT - English Rhetoric & Comp

### RHT 085# - Introduction to College Reading I

3 credits

Basic reading comprehension and study skills are reviewed while preparing students to deal successfully with college-level reading demands.

Prerequisite: must meet all current college Writing requirements for RHT 085 placement
Lecture: 3

### RHT 086# - Introduction to College Reading II

3 credits

Designed to improve reading, critical thinking skills and study skills necessary for success in college-level reading.

Prerequisite: must meet all current college Writing requirements for RHT 086 placement
Lecture: 3

### RHT 095# - Introduction to College Writing I

3 credits

Prepares students for the successful transition to college-level writing. Sentence, paragraph, and basic essay construction, focusing on grammar and mechanics, support and unity, organization and flow.

Prerequisite: must meet all current college Writing requirements for RHT 095 placement
Lecture: 3

### RHT 096# - Introduction to College Writing II

3 credits

Prepares students for college-level writing. Essay construction with a focus on several rhetorical modes, emphasizing grammar and mechanics, support and unity, organization, flow, and audience.

Prerequisite: must meet all current college Writing requirements for RHT 096 placement
Lecture: 3

### RHT 097# - Companion to English Rhetoric and Composition I

2 credits

For those who have met the reading placement requirement and who are on the cusp of entry into RHT 101◊, this course offers a pairing of RHT 101◊ with a developmental course support so that a student can move into a college-level course immediately. May be repeated up to three times to attain the proper skill level.

Prerequisite: must meet all current college Reading requirements for RHT 101◊ and Writing requirements for RHT 097;
Corequisite: with a specified section of RHT 101◊
Lecture: 2

### RHT 098# - Integrated College Reading and Writing I

5 credit hours

Prepares students for RHT 099 and for the successful transition to college-level reading and writing across the curriculum. Reading instruction is integrated with sentence, paragraph, and basic essay construction, focusing on grammar and mechanics, support, unity, and organization and flow. (Fall 2018)

Prerequisite: placement into RHT 095 and RHT 085 based on scores on the Reading and Writing placement tests
Lecture: 5

### RHT 099# - Learning Framework for College Reading and Writing

5 credits

Prepares students for college-level reading and writing across the curriculum. Reading instruction is integrated with essay construction of multiple rhetorical modes, emphasizing support and unity, organization, flow, audience, and grammar and mechanics. Recommended for highly motivated students wanting a refresher course of previously learned material.

Prerequisite: must meet all current college Reading and Writing requirements for RHT 086 and RHT 096 placement or must have completed RHT 095 and RHT 085 with a P
Lecture: 5

**RHT 101 ◊, # - Freshman Rhetoric & Composition I**
3 credits
Freshman Rhetoric I emphasizes logical, coherent writing skills for competency in any school or professional writing situation. (Note: grade of C or better is an IAI requirement effective summer 1999) (Fall 2017)

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: C1 901R

**RHT 102 ◊, # - Freshman Rhetoric & Composition II**
3 credits
The writing course sequence develops awareness of the writing process; provides inventional, organizational and editorial strategies; stresses the variety of uses for writing; and emphasizes critical skills in reading, thinking and writing. (Note: grade of C or better is an IAI requirement effective summer 1999).

Prerequisite: RHT 101◊ with a grade of C or higher
Lecture: 3
IAI: C1901R

**RHT 255 ◊, # - Creative Writing**
3 credits
Creative writing as a craft developed through a process of active reading, habitual writing and peer critiquing in a workshop setting.

Prerequisite: must meet all current college Reading and Writing requirements for RHT 101◊ placement
Lecture: 3

## SAT - Sustainable Agriculture Tech

**SAT 100 - Principles of Agroecology**
3 credits
Focus on scientific, social and sustainable principles of agroecology and food production with a discussion on the political, economic, social and environmental aspects of various food systems. *(course fee required)*

Lecture: 3

**SAT 105 - Urban Agriculture Issues**
3 credits
Introduction to the agricultural issues associated with urban living and ways to enhance the production and availability and deliverability of fresh foods within large cities. Also, organic food production, including hydroponics, urban farming and aquaponic gardening as alternatives to traditional rural farming and distribution. *(course fee required)*

Lecture: 2
Laboratory: 2

**SAT 110 - Natural Resource Management (Soils and Water)**
3 credits
Contemporary practices of natural resource management, including issues in soil and water conservation, sustainable practices relevant to urban and rural areas, appropriate plant selection and environmental issues, and management practices that have an adverse effect on the environment and the solutions to such situations. *(course fee required)*

Lecture: 2
Laboratory: 2

**SAT 130 - Sustainable Plant Health Care**
3 credits
Introduction to plant health care including their biology, identification, structure, life cycle, hosts and damages, control of insects, diseases, and environmental factors by using sustainable Integrated Pest Management (IPM) practices. *(course fee required)*

Lecture: 2
Laboratory: 2

**SAT 140 - Sustainable Organic Plants**
4 credits
Exploration of organic plants with emphasis on environmental factors needed for sustainability, growth, and cultivation, along with future implications of various practices. *(course fee required)*

Lecture: 2
Laboratory: 4

**SAT 170 ◊ - Introduction to Biotechnology**
3 credits
History, methods and applications of biotechnology. An overview of the molecular and genetic principles and processes fundamental to biotechnology. Forensic, medical, agricultural and environmental applications of biotechnology.

Lecture: 3

**SAT 210 - Sustainable Plant Production for Human Nutrition**
3 credits
Overview of how to produce nutritional food crops and methods of overcoming the challenges facing the availability of fresh and nutritious food produce from the human health perspective.

Lecture: 3

**SAT 220 - Designing Food Production Systems in Urban Landscaping**
1 credit
Emphasizes urban landscape design solutions to overcome barriers to providing local fresh food resources in an urban setting. Also crop and livestock selection and various community programs that address the nutritional needs in urban areas. *(course fee required)*

Lecture: 1

### SAT 230 - Managing Food Production Systems in the Urban Landscape

3 credits

Emphasizes urban landscape design solutions to overcome barriers to providing local fresh food resources in an urban setting. Also crop and livestock selection and various community programs that address the nutritional needs in urban areas. *(course fee required)*

Lecture: 2
Laboratory: 2

### SAT 271 - Design of Sustainable Landscapes

4 credits

For future landscape designers/architects and landscape contractors. Utilizes Leadership in Energy and Environmental Design (LEED) green building systems for landscapes, the American Society of Landscape Architects' (ASLA) sustainability guidelines and best practices in design, including elements of water, soils, vegetation, materials, construction, operations and maintenance, innovation and human-health and well-being with a focus on design problems. *(course fee required)*

Lecture: 2
Laboratory: 4

### SAT 272 - Construction of Sustainable Landscaping

4 credits

Principles and practices of proper grounds maintenance, care of woody plants, herbaceous flowers, groundcovers, vines, lawns and other landscape features. Also, construction aspects needed to accomplish sustainable landscape construction project and related business principles and arboriculture techniques, including pruning, woody plant propagation and woody plant care. *(course fee required)*

Lecture: 2
Laboratory: 4

## SOC - Sociology

### SOC 100 ◊ - Introduction to Sociology

3 credits

Introduction, analysis and description of the structure and dynamics of human society. Analysis of social conflict, function of institutions, group interactions, and social stratification among diverse groups. (Fall 2016)

Lecture: 3
IAI: S7 900

### SOC 120 ◊, # - Social Patterns of Courtship & Marriage

3 credits

Survey of the contemporary family in historical and cross-cultural perspectives. Trends in mate selection, marriage, child-rearing, employment, gender roles and communication within the family. (Spring 2016)

Prerequisite: PSY 100◊ or SOC 100◊
Lecture: 3
IAI: S7 901

### SOC 131 ◊ - Social Problems

3 credits

Analysis of contemporary social problems and investigation of theories on social organization and conflict. Explores the genesis, significance, and amelioration of social problems.

Lecture: 3
IAI: S7901

### SOC 175 ◊ - Introduction to Social Work

3 credits

An introduction to generalist social work within the context of social welfare service and policies, including their historical origins, conceptual framework, and contemporary foci. Provides an overview of principal social work values and code of ethics, practice methods, research considerations, and policy issues. Emphasizes the unique experiences of diverse and at-risk populations facing a variety of social challenges. These groups include, but are not limited to, women, minorities, persons with disabilities, gays and lesbians, and older adults, among others.

Lecture: 3

### SOC 180 ◊ - Human Sexuality

3 credits

Examination of the biological, psychological, and social aspects of human sexuality. Topics include development of sexual identity and the effects of genetic, cultural, and environmental influences on human relationships and behavior.

Lecture: 3

### SOC 201 ◊, # - Sociology of Death and Dying

3 credits

Examines death and dying within a cultural context and addresses questions central to life and living, including the collective crises and cultural responses, and cross-cultural perspectives on terminal illness, funeral and burial rituals, euthanasia, suicide, and cultural and ethical values and problems related to death and dying. (formerly Death and Dying)

Prerequisite: PSY 100◊ or SOC 100◊
Lecture: 3

### SOC 210 ◊, # - Sociology of Leadership

3 credits

Provides a basic understanding of leadership and group dynamics theories. Assists participants in developing personal philosophy of leadership, awareness of the moral and ethical responsibilities of leadership, and awareness of one's own ability and style of leadership.

Prerequisite: PSY 100◊ or SOC 100◊; involvement in campus club or activity
Lecture: 3

**SOC 225 ◊, # - Racial & Cultural Minorities**
3 credits
Analysis of racial, religious, ethnic and other groups, examining persistence of group identity, inter-group relations, social movements, government policy and related social problems. (Spring 2016)

Prerequisite: SOC 100◊
Lecture: 3
IAI: S7 903D

**SOC 231 ◊, # - Analysis of Juvenile Delinquency**
3 credits
Topics addressed include: conceptions of delinquency and its causation, the juvenile-court movement, juvenile detention, treatment of juvenile offenders and delinquency-prevention programs.

Prerequisite: SOC 100◊
Lecture: 3

**SOC 296 ◊, # - Special Topics in Sociology**
3 credits
International topics and problems in sociology through readings, discussion, guided research, and field trips are studied. Topics vary from semester to semester and must be approved by the Dean of Arts and Sciences.

Prerequisite: one sociology course
Lecture: 3

## SPE - Speech Theatre

**SPE 101 ◊, # - Principles of Effective Speaking**
3 credits
Principles of communication in conversation, discussion, and public speaking.

Prerequisite: must read and write at college level demonstrated by course equivalency or meeting all current Reading and Writing requirements for RHT 101◊ placement
Lecture: 3
IAI: C2 900

**SPE 111 ◊ - Interpersonal Communication**
3 credits
Communication theory and practice in interpersonal relationships. Listening, self-awareness, effective verbal and non-verbal communication, cooperation and conflict management skills.

Lecture: 3
IAI: MC 901

**SPE 112 ◊ - Intercultural Communication**
3 credits
Communication concepts operating between cultures and co-cultures, values, sensitivity, biases, identity politics, worldviews, communication patterns, and relationships across cultures.

Lecture: 3
IAI: MC 904

**SPE 113 ◊, # - Small Group Communication**
3 credits
Leadership, group process and interpersonal relations in the small group and public forum. Theories of small group dynamics, public discussion and conflict management.

Prerequisite: SPE 101◊
Lecture: 3
IAI: MC 902

**SPE 121 ◊, # - Argumentation**
3 credits
Principles of reasoning, critical thinking, argumentation, and advocacy and their expression in a variety of media. Students will develop an understanding of how arguments function to influence attitudes, values, and behaviors in our public culture with an emphasis on the nature of argument, proofs and evidence, constructing arguments, fallacies of argument, and the use of logical and persuasive reasoning. (formerly Advanced Public Speaking) (Summer 2018)

Prerequisite: SPE 101◊
Lecture: 3
IAI: MC 905

**SPE 130 ◊ - Introduction to Theatre**
3 credits
Role of theater as a major fine art and a communicator of ideas, human understanding and cultural values. Contributions of the playwright, actor/actress, director, designer and technician to theatrical production, including the study and analysis of historical, social, aesthetic and technical aspects of theatrical/dramatic expression. (Spring 2016)

Lecture: 3
IAI: F1 907

**SPE 135 ◊, # - Stagecraft**
3 credits
Introduction to technical theatre production. Scenery, properties and costume production and lighting techniques. Safe use of tools and equipment in supervised hands-on work. (Fall 2015)

Prerequisite: SPE 130◊
Lecture: 3
IAI: TA 911

**SPE 141 ◊ - Introduction to Performance Studies**
3 credits
Interpretation and performance of texts, including poetry, drama, short stories, novels, personal narratives and essays. Performance of everyday life, human action and interaction, culture and rituals. Vocal and physical expressiveness.

Lecture: 3
IAI: TA 916

**SPE 161 ◊ - Acting I**
3 credits
Fundamentals of Acting: concentration, observation, playing action, body and vocal awareness and the basic artistic process of

the actor are taught and implemented through acting exercises, improvisations and scene study. Major acting approaches are introduced with an emphasis on the Stanislavski method, and are used as the basis for helping the actor acquire craft in order to create believable characters. (Spring 2016)

Lecture: 3
IAI: TA 914

**SPE 162 ◊, # - Acting II**
3 credits
A critical introduction to the fundamentals of scene study and textual analysis. Scenes from modern and contemporary plays are introduced to build a process of character development. Provides the necessary knowledge and experience for continued work in theatre, and demonstrates the importance of research, analysis, and imagination for resolution of acting issues. (Spring 2016)

Prerequisite: SPE 161◊
Lecture: 3

**SPE 294 ◊, # - Gender and Communication**
3 credits
Gender and sex in communication theory and practice. Social construction of gender; language, perception, and transactional patterns; historical and contemporary notions of masculinity and femininity. Effective communication strategies for private and public interactions.

Prerequisite: must read and write at college level demonstrated by course equivalency or meeting all current Reading and Writing requirements for RHT 101◊ placement

Lecture: 3

**SPE 296 ◊ - Special Topics in Speech and Theatre**
1 - 4 credits
Current topics in speech and/or theatre selected by students in consultation with the instructor. Course may be repeated up to three times when topics are different, but no more than six hours may be used by a student to complete the degree requirement of a program. (Spring 2016)

Lecture: 1 - 4

# SPN - Spanish

**SPN 101 ◊ - Elementary Spanish I**
4 credits
Develops the ability to speak, understand, read and write Spanish in a cultural context. Not intended for native speakers or for students who have studied this language within the last three years. (Spring 2015) *(course fee required)*

Lecture: 4

**SPN 102 ◊, # - Elementary Spanish II**
4 credits
Continues the development of the ability to speak, understand, read, and write Spanish in a cultural context emphasizing conversational skills and simple readings. (Spring 2015) *(course fee required)*

Prerequisite: SPN 101◊ with a grade of C or better or must be able to demonstrate aural comprehension, speaking, reading, and writing at the present tense level; can be demonstrated by course equivalency, or by meeting all current Reading, listening, and Writing requirements for Spanish language placement test
Lecture: 4

**SPN 103 ◊, # - Intermediate Spanish I**
4 credits
Continues the development of communicative competence increasing the ability to speak, understand, write and read in Spanish in a cultural context emphasizing cross-cultural communication and advanced readings. (Fall 2015) *(course fee required)*

Prerequisite: SPN 102◊ with a grade of C or better or must be able to demonstrate aural comprehension, speaking, Reading, and Writing in the past and perfect tenses and the subjunctive mood; can be demonstrated by course equivalency, or by meeting all current Reading, listening, and Writing requirements for Spanish Language placement test
Lecture: 4

**SPN 104 ◊, # - Intermediate Spanish II**
4 credits
Language as communication is studied, including reading and discussion of contemporary short stories, -novels or plays, and a review of simple and complex structures of language.

Prerequisite: SPN 103◊ or satisfactory placement test scores
Lecture: 4
IAI: H1 900

**SPN 113 ◊, # - Spanish Composition & Conversation I**
2 credits
Course is designed to develop students' ability to communicate effectively in oral and written form. Emphasis is on listening comprehension and speaking proficiency. Grammar is studied inductively.

Prerequisite: one year of college Spanish, SPN 103◊ and SPN 104◊; OR
Corequisite: with SPN 103◊ and SPN 104◊
Lecture: 2

**SPN 114 ◊, # - Spanish Composition & Conversation II**
2 credits
This continuation of SPN 113◊ is designed to improve pronunciation, listening comprehension and speaking ability. Weekly compositions develop better written self-expression.

Prerequisite: one year of college Spanish, SPN 103◊ or SPN 104◊; OR
Corequisite: with SPN 103◊ or SPN 104◊
Lecture: 2

**SPN 115 ◊, # - Spanish for Heritage Speakers I**
4 credits
Designed for students who are native speakers of Spanish with oral proficiency, but little or no formal training in the language. Underlines Spanish orthography, syntax and vocabulary and includes composition review, reading and discussion of modern prose. Fosters appreciation of Hispanic cultural-linguistic heritage. Also includes culture and civilization of the Hispanic world, with emphasis on the United States. *(course fee required)*

Prerequisite: SPN 104◊ or successful completion of placement test
Lecture: 4
IAI: H1 900

**SPN 116 ◊, # - Spanish for Heritage Speakers II**
4 credits
Designed for students who successfully completed SPN 115◊ and/or who are native speakers of Spanish. Provides students with the opportunity to review and expand Spanish orthography, syntax and vocabulary and includes composition review, reading and discussion of modern prose. Course expands appreciation of Hispanic cultural-linguistic heritage. Content includes additional exploration of culture and civilization of the Spanish speaking world, with emphasis on the United States. *(course fee required)*

Prerequisite: SPN 115◊ or successful completion of placement test
Lecture: 4
IAI: H1 900

**SPN 118 ◊, # - Study/Travel in Hispanic Countries**
4 credits
Students study the Spanish language and Hispanic culture. Emphasis is on audio-lingual skills. Students select a research project on a Hispanic topic.

Prerequisite: one year of college Spanish
Lecture: 4

**SPN 151 ◊, # - Introduction to Spanish/American Literature I**
3 credits
Course covers the development of Spanish-American literature from its beginning to the 19th century, before modernism. Students analyze the major authors in terms of their historical context.

Prerequisite: SPN 104◊
Lecture: 3
IAI: H3 916

**SPN 152 ◊, # - Introduction to Spanish American Literature II**
3 credits
Development of Spanish-American literature from 1886 to the present is studied. SPN 151◊ and SPN 152◊ together constitute a survey of Spanish-American literature from the Colonial period to the present. *(course fee required)*

Prerequisite: SPN 151◊
Lecture: 3
IAI: H3 917

**SPN 190 ◊, # - Career Spanish**
3 credits
Intensive, beginning Spanish conversation with special emphasis on practical usage in specified career areas are covered. Separate sections for Criminal Justice and Fire Science personnel, Health Careers and Business are offered. *(course fee required)*

Lecture: 3

**SPN 296 ◊, # - Special Topics in Spanish**
3 credits
International topics and problems in Spanish language and literature are addressed through readings, discussion, guided research and field trips. Topics vary from semester to semester and must be approved by the dean of Arts and Sciences.

Prerequisite: SPN 104◊
Lecture: 3

## SPT-Sterile Processing

**SPT 100# - Sterile Processing Basics**
2 credits
The sterile processing environment, including information regarding regulations and standards, infection prevention, quality assurance, safety and risk management, communication, and professional development. (Fall 2018)

Prerequisite: admission to the Sterile Processing Technician program
Lecture: 2

**SPT 110# - Introduction to Medical Devices**
2 credits
Basic and complex surgical instrumentation, introduction to commonly used medical devices used in the patient care environment. (Fall 2018)

Prerequisite: admission to Sterile Processing Technician program
Lecture: 2

**SPT 120# - Principles of Sterile Processing Practice**
2 credits
Theory related to cleaning, disinfection, assembly, packaging, sterilization, storage, and transportation of medical devices is presented. (Fall 2018)

Prerequisite: admission to Sterile Processing Technician program
Lecture: 2

**SPT 130# - Perioperative Services Lab**
1 credit
Perioperative services skills in preparation to enter the sterile processing environment in the clinical setting. (Fall 2018) *(course fee required)*

Prerequisite: admission to Sterile Processing Technician program
Laboratory: 2

**SPT 140# - Sterile Processing Technician Seminar**
2 credits
Comprehensive review of standards needed to prepare for the Certified Registered Central Service Technician (CRCST) Examination offered by the International Association of Healthcare Central Sterile Materiel Management (IAHCSMM). Includes professional development and employability skills such as resume writing and interview techniques. (Fall 2018)

Prerequisite: SPT 100, SPT 110, SPT 120, and SPT 130
Lecture: 2

**SPT 150# - Experiential Learning**
2 credits
Under direct supervision, at the assigned clinical site, the student will perform essential sterile processing technician duties in ten specified areas. The clinical hours documented in this course may be combined with additional hours recorded as a sterile processing department volunteer or employee to meet the 400 hours of hands-on experience required to apply to take the Certified Registered Central Service Technician (CRCST) Examination. (Fall 2018) *(course fee required)*

Prerequisite: SPT 100, SPT 110, SPT 120 and SPT 130
Clinical Laboratory: 4

# SRT - Surgical Technology

**SRT 100# - Surgical Technology Basics**
3 credits
Provides introductory information related to the profession of surgical technology as well as foundational information concerning the healthcare sciences, technological sciences, patient care concepts, and professional practices.

Prerequisite: admission to Surgical Technology program
Lecture: 3

**SRT 110# - Basic Surgical Skills Theory**
3 credits
Introduction to the surgical environment includes an overview of the roles of the surgical team members, attire, furniture, instrumentation, equipment, and supplies. The three phases of surgical case management are described and principles of asepsis and the practice of sterile technique are presented. (formerly Introduction to Surgical Technology)(Summer 2017)

Prerequisite: admission to the Surgical Technology program
Lecture: 3

**SRT 111# - Basic Surgical Skills Lab**
3 credits
Students will perform basic individual skills related to the three phases of surgical case management by applying the principles of asepsis and implementing the practice of sterile technique. (Summer 2016) *(course fee required)*

Prerequisite: admission to the Surgical Technology program
Laboratory: 6

**SRT 120 ◊, # - Basic Surgical Procedures**
5 credits
Noninvasive and invasive diagnostic procedures as well as basic surgical interventions for general, obstetric and gynecologic, endoscopic, otorhinolaryngologic, genitourinary, trauma, and orthopedic surgical disciplines. (Summer 2017)

Prerequisite: SRT 100, SRT 110 and SRT 111
Lecture: 5

**SRT 121# - Advanced Surgical Skills Lab**
3 credits
Building on the theories investigated in SRT 110 and the basic skills learned in SRT 111, students will assimilate individual surgical case management skills into systematic practice. *(course fee required)*

Prerequisite: SRT 100, SRT 110 and SRT 111
Laboratory: 6

**SRT 130 ◊, # - Specialty Surgical Procedures**
6 credits
Encompasses an in-depth study of relevant surgical anatomy, physiology, pathophysiology, and diagnostic interventions as well as factors unique to the following specialty procedure areas: ophthalmic, oral and maxillofacial, plastic and reconstructive, oncologic, cardiothoracic, peripheral vascular, neurosurgical, and pediatric. (Summer 2017)

Prerequisite: SRT 120 and SRT 121
Lecture: 6

**SRT 131# - Surgical Simulation Lab**
3 credits
Mock surgical procedures are carried out in the simulated operating room. Student must provide all necessary health records, a negative drug screening, and an American Heart Association CPR for Healthcare Providers certification that are current for the duration of the program. (Summer 2016) *(course fee required)*

Prerequisite: SRT 120 and SRT 121
Laboratory: 6

**SRT 200# - Professional Development**
6 credits
Professional development and employability skills including resume writing and interview techniques.

Prerequisite: SRT 130 and SRT 131
Lecture: 6

**SRT 205# - Clinical Experience I**
3 credits
Under direct supervision, at the assigned Under direct supervision, at the assigned clinical site, the student will perform nonsterile and sterile surgical case management duties. Assignments may include the sterile processing department, preoperative holding area, surgery department, endoscopy department, labor and delivery department, and the postanesthesia care unit. In conjunction with SRT 215 (Clinical

Experience II), the student is expected to scrub a minimum of 120 cases. The clinical sites are located within a 60-mile radius of the campus. (Summer 2017) *(course fee required)*

Prerequisite: SRT 130 and SRT 131
Clinical Laboratory: 6

**SRT 210# - Certification Exam Prep**
6 credits
Comprehensive review of information learned throughout the program is provided in preparation for the National Certification Examination offered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA). (Summer 2016)

Prerequisite: SRT 200 and SRT 205
Lecture: 6

**SRT 215# - Clinical Experience II**
3 credits
Under direct supervision, at the assigned clinical site, the student will perform non-sterile and sterile surgical case management duties. In conjunction with SRT 205 (Clinical Experience I), the student is expected to scrub a minimum of 120 cases. The clinical sites are located within a 60-mile radius of the campus.(Summer 2016) *(course fee required)*

Prerequisite: SRT 200 and SRT 205
Clinical Laboratory: 6

## SSC - Social Science

**SSC 190 ◊ - Contemporary Society**
3 credits
Responsibilities and obligations that face each person in our society are addressed. The basic social sciences- psychology, sociology, economics and government are studied.

Lecture: 3
IAI: S9 900

## VIC - Visual Communication Graphic Design

**VIC 100 ◊ - Graphic Design**
3 credits
Introduction to graphic design for all media, emphasizing design principles, typography, and rendering designs by hand and on a computer. Production steps for print, web, and multimedia. Projects are critiqued for aesthetics and Projects may become elements of a professional portfolio. (Fall 2016) *(course fee required)*

Laboratory: 6

**VIC 104 ◊ - Computer Art I**
3 credits
An introduction to computer applications for the visual arts in a software-based approach to basic image manipulation and creation. Hardware and software are applied to create visual ideas, as applied to art and design. Emphasis is placed on creativity. The projects may become elements of a professional portfolio. Recommended for students interested in basic introduction to illustration, paint, photo-manipulation and Macintosh computing techniques. This is a design course, not a production course. *(course fee required)*

Laboratory: 6

**VIC 121 ◊ - Introduction to Adobe InDesign**
3 credits
Explores the application of Adobe InDesign page layout software. InDesign is a sophisticated layout program that integrates seamlessly with Adobe Photoshop and Adobe Illustrator for the design of brochures, newsletters and other page-based layout. Course projects cover a variety of design elements, including type photographs and graphic elements. Font selection, measurement systems and basic design concepts. It is recommended that students taking this course have MAC or PC experience. (Formerly Introduction to Quark/InDesign.) *(course fee required)*

Laboratory: 6

**VIC 142 ◊ - Introduction to Illustrator**
3 credits
Adobe Illustrator is introduced through a series of illustration-based projects. Emphasis is placed on the application of the tools used for the creativity and production of graphic images consisting of strokes, fills, blends, gradients and filters. Color considerations for illustration specifications, file formats and file output. Recommended for students interested in basic illustration techniques using Adobe Creative Suite. It is recommended that students taking this course have MAC or PC experience. (Fall 2016) *(course fee required)*

Laboratory: 6

**VIC 160 ◊ - History of Photography**
3 credits
The historical development of photography as an art form from 1820 to the present, including critical analysis of types of photographs and aesthetic movements in photography. Examines photographs for their aesthetic and humanistic values, emphasizing photographs as expressions of the ideas and beliefs of photographers within their cultural and social contexts.

Lecture: 3
IAI: F2 904

**VIC 161 ◊ - Introduction to Photoshop**
3 credits
Adobe Photoshop is an image manipulation software used for print, web and photography. Students develop skills to work creatively and efficiently in Photoshop through a series of design projects. It is recommended that students taking this course have MAC or PC experience. (Fall 2016) *(course fee required)*

Laboratory: 6

### VIC 162 ◊ - Digital Photography
3 credits
Basic principles of digital photography, including equipment selection and use, image processing and output. Composition, exposure, and an overview of photography as a commercial and artistic medium. A Digital Single Lens Reflex (DSLR) camera is recommended but not required. The digital camera, provided by the student, requires a manual setting and a minimum of ten mega pixels to complete the course objectives. Students create a digital portfolio of work. Adobe Photoshop Creative Suite and Macintosh Computers and will be used for photographic production. It is recommended that students have a working knowledge of PC or Mac computers. (Fall 2016) *(course fee required)*

Laboratory: 6

### VIC 163 ◊ - Digital Studio Photography
3 credits
Digital photographic studio applications. Students provide a Digital Single Lens Reflex (DSLR) camera equipment to be used in studios with professional lighting and backdrops for the creation of portrait and product photography. Lighting ratios, gray balance, contrast, resolution and production requirements are explored. It is recommended that students have a working knowledge of computers and Photoshop. Students will create a digital portfolio of their photographic portrait and product work. (Fall 2016) *(course fee required)*

Laboratory: 6

### VIC 165# - Photography Exploration
3 credits
Beginning and advanced students will gain experience in photographing in various situations, including event photography, location photography and studio specialties. Composition through the camera lens at off-campus locations are explored through class field trips. Photographic editing and printing using a Macintosh computer. Photographs are critiqued for aesthetic quality. Students create a digital portfolio of their photographic body-of-work. Students provide a digital camera, transportation and entrance fees to various locations. May be repeated up to three times for an accrued nine credit hours toward graduation.(Fall 2016) *(course fee required)*

Prerequisite: VIC 162◊ or VIC 163◊
Laboratory: 6

### VIC 172 ◊, # - Web Page Design
3 credits
Introduction to designing professional web pages. Students create web pages through the application of graphics, critique of current sites, and storyboards. Websites are constructed using Adobe Dreamweaver, Photoshop and Content Management Software-CMS. This is a design course. (Fall 2016) *(course fee required)*

Prerequisite: VIC 161◊ OR
Corequisite: with VIC 161◊
Laboratory: 6
IAI: MC 923

### VIC 190# - Introduction to Digital Media and Animation
3 credits
Basic concepts of computer graphics as it is used in film, visual effects, games, and animation. Students explore the history of these different disciplines and gain insight into the approaches used by professionals in today's market. Adobe Creative Suite, Digital Media Capture Devices and 3D printing will be utilized. (Fall 2016) *(course fee required)*

Prerequisite: VIC 142◊ and VIC 161◊
Laboratory: 6

### VIC 202 ◊, # - Advanced InDesign and Typography
3 credits
The exploration of the construction, function and application of typography, as a design and communication element in a series of projects created specifically in Adobe InDesign and Adobe Illustrator. Emphasis is placed on creativity, legibility and readability of the final product. Advanced InDesign layout techniques are applied. The projects may become elements of a professional portfolio. (Formerly Graphic Design Typography) (Fall 2016) *(course fee required)*

Prerequisite: VIC 100◊, VIC 121◊ and VIC 142◊
Laboratory: 6

### VIC 204# - Digital Mixed Media I
3 credits
An introduction to mixed media techniques for Photography and Graphic Design. Digital transfer to surfaces and printing onto various substrates allow for both traditional design and digital art to combine into finished pieces. Printing to canvas, transferring to wood or glass, and adding various media, creates a mixture of textures, pigments and graphic elements. Finished pieces can be photographed and incorporated digitally into graphic art for print or web. It is recommended that students have a working knowledge of computers and Photoshop. *(course fee required)*

Prerequisite: VIC 161◊ OR
Corequisite: with VIC 161◊
Laboratory: 6

### VIC 205# - Mixed Media II - Metals
3 credits
An introduction to photography and mixed media techniques for metals. Photo transfer to metal surfaces using printing, resins, laser and embossing. Both traditional design and digital art are combined into finished pieces that include metalwork, wirework, beading for jewelry and collage. *(course fee required)*

Prerequisite: VIC 161◊ OR
Corequisite: with VIC 161◊
Laboratory: 6

**VIC 213 ◊, # - Color Management**
4 credits
The process of building a calibrated color system. Monitor, printer, media, and web, device character or color gamut, color conversion and RGB, CMYK and CIE color space. The goal of this course is for the student to develop a system to achieve predictable and consistent color reproduction from layout through output to printers and media. (Fall 2016) *(course fee required)*

Prerequisite: VIC 161◊
Lecture: 2
Laboratory: 4

**VIC 242 ◊, # - Advanced Illustrator**
3 credits
Color composition is explored through a series of advanced Adobe Illustrator projects. Emphasis is placed on creativity and concept development and the final output of each piece. Projects are critiqued for aesthetics and may become elements of a professional portfolio. Recommended for those students interested in applying advanced illustration design and color composition techniques, using professional software. (formerly Advanced Layout and Illustration) (Fall 2016) *(course fee required)*

Prerequisite: VIC 100◊ and VIC 142◊
Laboratory: 6

**VIC 261 ◊, # - Advanced Photoshop**
3 credits
Advanced application of Adobe Photoshop for editing, creative manipulation and production of digital images. Through a series of image modification projects, students will develop the skills that are needed to work creatively and efficiently in a design/production environment. Projects are critiqued for aesthetics and may become elements of a professional portfolio. (Fall 2016) *(course fee required)*

Prerequisite: VIC 161◊
Laboratory: 6

**VIC 263# - Advanced Digital Studio Photography**
3 credits
Advanced digital photographic studio applications are covered as students develop photographic style in the imagery of portraiture and product photography. Emphasis is placed on creativity and professional photography studio applications. Students provide Digital Single Lens Reflex (DSLR) camera equipment to be used in studios with professional lighting, props and backdrops for the creation of portrait and product photography. Advanced lighting techniques and time-based imagery, output considerations, matting and framing are explored. It is recommended that students have a working knowledge of computers and Photoshop. Students create a digital portfolio of their photographic portrait and product work. (Fall 2016) *(course fee required)*

Prerequisite: VIC 161◊, VIC 163◊ OR
Corequisite: with VIC 161◊ and VIC 163◊
Laboratory: 6

**VIC 264 ◊, # - Advanced Digital Photography**
3 credits
Continuation of Digital Photography concepts and application. The hardware and software used to capture photographic images with a Digital Single Lens Reflex (DSLR) camera is explored. Advanced photographic composition methods, as well as DSLR technical photography skills. Students create a portfolio of their work and are expected to have the use of a digital DSLR camera. (Fall 2016) *(course fee required)*

Prerequisite: VIC 162◊; VIC 161◊ OR
Corequisite: with VIC 161◊
Laboratory: 6

**VIC 265# - Photo Production and Lightroom**
3 credits
Digital workflow for photography from image planning to output. Workflow software includes Adobe Bridge, Camera Raw and Lightroom. Students apply Raw files for editing and production, as well as file formats for storage and delivery. Digital marketing and the business of photography to prepare the student for freelance and/or studio work is discussed. (Formerly Photography Production) (Fall 2016) *(course fee required)*

Prerequisite: VIC 161◊ and VIC 162◊ or VIC 163◊
Laboratory: 6

**VIC 270 ◊, # - Writing for Multimedia**
3 credits
Instruction in creating copy for the exciting field of new media. Writing for print/advertising, websites, blogs and other digital formats including text, audio, still and moving images. (Fall 2016) *(course fee required)*

Prerequisite: RHT 101◊
Laboratory: 6

**VIC 272 ◊, # - Advanced Web Page Design**
3 credits
Advanced web page techniques are explored, including positioning of the xhtml div tag, floats and cascading style sheets. Video delivery and exploration of jQuery slideshows is also researched and applied in a more advanced level. Experienced users of Adobe Dreamweaver and CMS Content Management Software develop a site with the more sophisticated and interactive features demanded by clients. (Fall 2016) *(course fee required)*

Prerequisite: VIC 172◊
Laboratory: 6

### VIC 273 ◊ - Flash Animation
3 credits
Introduction to the concepts, processes and history of animation, covering both traditional and two-dimensional computer-based animation techniques, and incorporate the use of drawn, vector, and bitmapped formats as a means of generating animated sequences. It is recommended that students taking this course have some basic computer experience and an understanding of web applications. (formerly Introduction to Flash Animation) *(course fee required)*

Laboratory: 6
IAI: MC 924

### VIC 274 ◊, # - Advanced Flash Animation
3 credits
Creation of advanced animation incorporating action scripting, sound and graphics. Principles of design, information architecture and user interaction are covered in the creation of advanced interactive movies. *(course fee required)*

Prerequisite: VIC 273◊
Laboratory: 6

### VIC 275 - Designing for Social Media
3 credits
Basics of planning and designing for social media. Introduction to design theories used for industry standard media platforms, such as blogging software, YouTube, Twitter, Facebook, Pinterest, etc. Students will apply hands-on experience in exploring the use of graphic design principles and software, content design, search engine knowledge and marketing of social media. Students successfully completing this course will be able to design an online presence for client-based campaigns. (Fall 2016) *(course fee required)*

Laboratory: 6

### VIC 282 ◊, # - Portfolio for Graphic Design
3 credits
Advanced graphic design projects, planning, and preparation of a professional portfolio. Traditional portfolio books and a digital portfolio in web or multimedia format is submitted for successful completion. Recommended that students take this course in their last semester of study and have previously developed a series of 35-50 high quality images consisting of print, web or multimedia work for a portfolio. Each project is critiqued for aesthetic quality and production requirements. Students create a portfolio book and digital presentation for final review. A copy of all portfolio materials is submitted to the Visual Communication program. (Formerly Portfolio Design and Production) (Fall 2016) *(course fee required)*

Prerequisite: VIC 202◊, VIC 242◊, VIC 261◊
Laboratory: 6

### VIC 283# - Portfolio for Photography
3 credits
Advanced photography projects, planning, and preparation of a professional portfolio. Traditional portfolio books and a digital portfolio in web or multimedia format is submitted for successful completion. Recommended that students take this course in their last semester of study and have previously developed a series of 35-50 high quality images consisting of location, studio, fine art and commercial photography. Each image will be output on quality photographic paper both on campus and through outside resources. Students create a portfolio book and digital presentation for final review. A copy of all portfolio materials is submitted to the Visual Communication program. (Fall 2016) *(course fee required)*

Prerequisite: VIC 261◊, VIC 263, VIC 264◊, VIC 265
Laboratory: 6

### VIC 285 ◊ - Digital Video
3 credits
Various digital video hardware and software required to produce live action effects. These tools will be used to digitize and manipulate video footage and then output that footage for DVD and/or web delivery. Students will use video digitizing tools to capture video and manipulate, alter, move and layer multiple tracks of video; apply motion to static objects and images; and apply transitions, as well as sound to enhance the visuals. Projects will be evaluated for creativity. (Fall 2016) *(course fee required)*

Laboratory: 6

### VIC 286 ◊, # - Advanced Digital Video
3 credits
Production course structured around the art of filmmaking. Students will create several advanced short films. Emphasis is placed on script development, pre-production, on-location shooting, and post-production editing. Students use traditional production techniques, as well as digital technology. For a final project, each student will produce and direct either a short documentary or narrative film. (Fall 2016) *(course fee required)*

Prerequisite: VIC 285
Laboratory: 6

### VIC 288 ◊ - Video Editing
4 credits
Fundamentals of non-linear video editing. Major aspects of post-production workflow: capturing footage, file management, editing styles and conventions, audio sweetening, and exporting. Lectures and demonstrations linked to hands-on individual project creation and execution allow students to edit video productions, culminating with a final project of the students' personal footage or footage

provided by the instructor. Recommended that students are familiar with video production, Photoshop and have experience with a PC or Mac. (Fall 2016) *(course fee required)*

Lecture: 2
Laboratory: 4

**VIC 290 ◊, # - Cooperative Work Experience**
2 credits
Work experience will integrate classroom theory with on-the-job training. The college will assist the student in securing employment related to the field of study and / or career interests. The college will also provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be used in searching for employment. Under the supervision of the college and the employer, the student participates in job-training experiences. The student will work a total of 240 hours. *(course fee required)*

Prerequisite: 1) completion of 12 college credit hours; two (2) of these courses, in discipline, must be completed (2) 2.0 Grade Point Average (C average); (3) approval of the Cooperative Education office
Internship: 3

**VIC 291 ◊, # - Cooperative Work Experience**
2 credits
Continuation of the first co/op course, VIC 290◊. Students have the option to continue with their previous place of employment or select a different area of concentration related to their field of study. Work experience must go beyond what was learned in the previous co/op class or consist of an entirely different learning experience. Continuous growth of the individual is emphasized. As with the previous co-op experience, the college will continue to provide hands-on, interactive sessions where students can learn career readiness skills and effective techniques to be used in searching for employment. (Summer 2017)

Prerequisite: (1) VIC 290◊ with at least a C grade or better; (2) 2.0 Grade Point Average (C average); (3) approval of the Cooperative Education Office
Internship: 3

**VIC 296 ◊ - Special Topics in Visual Communication**
0.5 - 4 credits
Digital Media Design topics and issues are studies through readings, discussion, skill-based instruction, and field trips. Topics vary from semester to semester. Course is repeatable when topics vary; up to a maximum of twelve credit hours may be used toward graduation. (Fall 2016) *(course fee may be required depending on topic)*

Lecture: 0.5 – 4
Laboratory: 0.5 - 8

# Administration/Faculty

**Garrick Abezetian**
Associate Vice President, Finance and Business
DePaul University, MBA

**Leke Adeofe**
Behavioral Science
University of California, PhD

**David L. Anderson**
Coordinator, Computer Information Systems
North Central University, EdD

**Maxi Armas**
Social Science
Illinois State University, MA

**Debra Baker**
Vice President, Academic Affairs
Concordia University, MA

**J. Scott Baker**
Science
Loyola University, PhD

**Sandra M. Berryhill**
Chairperson, Counseling
Illinois State University, MS

**Joseph Beuchel**
Science
Ohio State University, MS

**Andrea Blaylock**
Engineering Technology
Ball State University, MA

**Henry Bohleke**
Dean of Business and Technology
Argosy University, DBA

**David Bowen**
College Readiness Math
DePaul University, MA

**Sandra Bowling**
Coordinator, Nursing Assistant
Lewis University, BSN

**Geri Brewer**
Associate Degree Nursing
Walden University, MSN

**Elizabeth Brindise**
Science
University of Illinois, MS

**Christina Brophy**
Social Science
Boston College, PhD

**Susan Marie Campos**
Dean, Health Careers and Public Service Programs
Capella University, PhD

**Serpil Caputlu**
College Readiness Math
Northeastern Illinois University, MS

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**Gregory Catena**
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Lewis University, MS

**Richard Chan**
Microbiology
Roosevelt University, MS

**Joann Cho**
Music
University of California, PhD

**Christopher Clem**
Hospitality Industry Administration
Roosevelt University, MS

**Beth Cliffel**
Science
University of California, MS

**John Cody**
Coordinator, Medical Assistant
University of Minnesota, MPH, MBA

**Elizabeth Collins**
Social Science
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# Glossary of Terms

**academic calendar**
Important dates for each semester; e.g., registration, add/drop, holidays and exams.

**academic placement**
Entering credit students are required to take institutional placement tests which determine knowledge in basic reading, writing and math or provide formal documentation of basic learning skills.

**academic plan**
A schedule of all courses needed to graduate in a certificate or degree program.

**area of concentration**
Courses that create a foundation for an intended major or electives to meet credit-hour requirements for a degree.

**arts and sciences**
Courses in the Arts and Sciences curricula parallel those offered at universities and are transferable to baccalaureate institutions.

**associate's degree**
Five types are offered at Triton College: Associate in Arts (AA), Associate in Science (AS), Associate in Applied Science (AAS), Associate in Fine Arts (AFA) and Associate in General Studies (AGS).

**articulated course**
A course that meets the requirements for a specific course or elective credit at a four year college or university, or has been approved by the Illinois Articulation Initiative, identified by the ◊ symbol (i.e. RHT 101◊).

**attendance policy**
The number of absences permitted will vary from class to class.

**audit**
Taking a class to benefit from experience without receiving a grade or college credit. The cost of auditing a course is the same as that charged for enrolling for credit. Special registration procedures apply.

**auxiliary fee**
A $1 per course fee which supports the development and maintenance of recreational facilities designed for student use.

**certificate**
Awarded to students who complete specific requirements in career education certificate programs of less than 50 semester hours.

**college success course work**
Provides students with the knowledge of basic reading, writing and mathematical skills that are necessary for success in the course or program of study chosen by the student. College success courses may not be used to meet graduation requirements.

**cooperative work experience**
Program designed to enhance the student's academic knowledge, personal development and professional preparation through a combination of classroom theory and practical work experience with area business and industry.

**counselor**
A professionally trained person who assists students with personal, academic and career concerns.

**course load per semester**
Seventeen semester hours constitute the normal semester course load. A student is considered "full-time" if the semester hour course load is 12 hours or more.

**credit hour**
The unit used to quantitatively measure courses. The number of credits assigned to a course is usually determined by the number of in-class hours per week and the number of weeks per session.

**credit by examination**
Course credit awarded to students demonstrating knowledge through proficiency, DSST or CLEP Exams.

**dean/associate dean**
Individual responsible for a particular instructional or administrative division.

**degree**
Awarded to a student who has completed a program of study.

**department chair**
Person who assists in the organization of curricula, scheduling of classes and management of faculty members within their own department.

**disciplinary action**
Students who fail to comply with Triton College policies, regulations and rules will be subject to disciplinary action, including dismissal from the college.

**district**
Made up of 25 towns and villages that surround Triton College. The tuition rate is determined by the student's residence.

**drop a course**
Action taken when a student no longer wants to take a course he/she has previously registered for. A course dropped during 100% tuition refund period does not appear on the student's transcript. After 100% period, a 'W' will appear on the student's transcript.

**dual admission**
Students are admitted simultaneously to both a 2-year college and the 4-year institution that will grant the final degree. The student will complete approximately the first 2 years of college at the 2-year college and transfer for the junior and senior year to the designated 4-year institution.

**elective**
Courses that students choose to take in order to reach the required number of hours for a certificate or degree. Students in some curricula have "recommended electives" or "program electives."

**enrollment verification**
Procedure to certify current or previous enrollment at Triton College.

**extension sites**
An outreach center of Triton College offering credit and non-credit courses at locations within the district.

**extracurricular activities**
Events or activities offered outside of the credit curriculum; e.g., clubs, athletics.

**fee**
Money charged for additional services beyond tuition rate (i.e., Registration fee, Student Services fee).

**financial aid**
Financial assistance designed to bridge the gap between the resources of the students and their families and the cost of attending Triton College. The different forms of financial aid are: grants, loans, work on campus, various local scholarships or veteran's affairs.

**financial aid transcript**
Records showing past financial aid agreements between the student and any other colleges or universities.

**flexible scheduling**
Classes offered at a variety of times, course lengths and locations that respond to the student needs.

**full time**
Enrollment in 12 or more credit hours per semester (6 hours in summer session).

**general petition**
A form used by students when requesting that the college initiate an action pertaining to student enrollment.

**general studies**
An associate's degree (AGS) intended for students whose educational goals cannot be adequately met by other degree programs. The AGS is awarded in individualized curricula that has been agreed upon by the student and counselor.

**grade point**
Numerical value assigned to the letter grade received in a class. Used to calculate a grade point average.

**graduation petition**
A form required to be considered for an upcoming graduation. It may be accessed in the student portal.

**honors**
Distinction awarded to graduates based on cumulative Grade Point Average at graduation.

**honors study**
The opportunity for honors study is available through general petition into Scholars Program course sections and Independent Study. These options are designed to provide intellectual challenge for the serious student.

**hybrid/blended courses**
A method of instruction that utilizes face-to-face, online and internet deliveries.

**Illinois Articulation Initiative (IAI)**
The Illinois Articulation Initiative (IAI) is a statewide agreement that allows transfer of the completed General Education Core Curriculum between participating Illinois institutions. Completion of the General Education Core Curriculum at any participating college or university in Illinois assures transferring students that lower-division general education requirements for an associate's or bachelor's degree have been satisfied.

**incomplete grade**
If a student is passing and misses the final examination (with authorization of the appropriate dean) or fails to complete a major course assignment, the instructor may assign a grade of an "I"—Incomplete. Coursework must be completed within 30 days of the start of the next semester (or date determined by instructor) or the grade automatically becomes "F".

**independent study**
Students working on their own in order to complete a course in an Arts and Sciences program. Special requirements apply.

**international student**
Non-native student wishing to attend Triton with a student visa. Special application process is required.

**joint agreement**
Understanding between Triton and other community colleges that out-of-district students can pay in-district tuition rates when enrolled in specific unique programs. Selected programs are available at in-district rates at other community colleges. Students enrolling in applied science programs are eligible.

**lecture/lab**
Number of hours students spend per week in lecture and/or laboratory time in a course.

**MyTriton portal**
Students are able to access information related to Triton activities (course schedules, registration, financial aid, tuition payment, etc.) online through their MyTriton portal.

**online course**
A method of instruction that is predominantly delivered online through the Internet.

**part time**
A student who is taking fewer than 12 semester hours (less than six hours in summer session).

**permanent record**
The college's internal document reflecting the unabridged academic history of the student at the institution.

**placement tests**
Institutional placement tests in reading, writing and math required for all credit students. Used to determine placement into appropriate levels of course work.

**prerequisite**
A course or courses that must be completed before taking another.

**probation (academic)**
Student academic status when 13-24 semester hours are attempted with completion of less than 50 percent of semester hours attempted or cumulative GPA of less than 2.00.

**probation (disciplinary)**
Students who fail to comply with college rules and regulations will be subject to disciplinary action, including dismissal from the college. Disciplinary hearings are conducted.

**refund**
A student who officially withdraws from any class may be refunded a percentage of the course tuition, depending on when withdrawal is made. The refund schedule is published in each college catalog.

**registration**
The process of completing steps necessary to enroll in classes, which results in a class schedule.

**repeating a course**
Students may repeat any course but may not receive credit for the course more than once. Only the higher of the two grades will be used in computing the grade point average. This policy pertains to courses taken and repeated at Triton College.

**reverse transfer**
A student transferring from another college to Triton.

**schedule (class)**
A listing of times, days and location of a student's courses.

**schedule (semester)**
A publication providing a complete listing of dates and times for courses offered for a semester.

**scholars program**
A program of course work for academically superior students intending to transfer to four-year institutions. Special admission procedures apply.

**selective admission programs**
Programs that have special enrollment requirements.

**semester**
The period when courses are conducted. Triton has fall, spring and summer semesters.

**semester hour**
See credit hour.

**standards of academic progress**
A procedure that identifies students who are seemingly making little or no academic progress and offers to help them correct academic weakness as early as possible.

**student handbook**
"Book 411" is Triton's student handbook for campus information, including programs, services and departments.

**student orientation**
Session to introduce students to Triton programs, services and facilities. Optional course planning is included. Required for all new degree-seeking students.

**student services fee**
Fee is charged to any students enrolled in one or more credit classes. This fee supports programs such as student activities, College Center operations, Learning Resource Center and the school newspaper.

**"2 + 2" agreements**
These agreements define two years of specific Triton course work that would allow for transfer into specific programs of study at participating four-year institutions. The agreement(s) also define(s) the two years of course work required at the senior institutions for completion of the baccalaureate degree. For additional information, students are encouraged to contact a counselor.

**transcripts**
Documents which are forwarded to persons or agencies for their use in reviewing the academic performance of the student. An official transcript is a legal document which contains an official signature, date of issuance and college seal. An unofficial transcript has no signature, date, or seal and is intended for reference or advising purposes only.

**transfer credit**
Upon petition, credit that has been earned at another accredited college or university will be applied to the student's Triton record.

**transfer guide**
A guide for the 2-year college student providing general information regarding course work at the 2-year college that matches the transfer requirements of the 4-year institution.

**transfer services**
Assistance to students who plan to transfer to a baccalaureate institution by helping them identify appropriate colleges and universities and scholarship sources.

**tuition**
Cost of attending courses based on residency status and the number of semester hours for which the student enrolls.

**tuition payment plan**
Agreement to make tuition payments in installments during the semester.

**university center**
Through strategic partnerships with senior institutions, the college will offer students the opportunity to continue their higher education pursuits for select bachelor degree programs without leaving the Triton campus.

**weekend college**
Courses offered Friday nights, Saturdays and Sundays. Primarily designed for mature, disciplined students who are capable of concentrated attention and study.

**withdrawal**
Procedure to terminate enrollment in a class after the add/drop period. Students who do not officially withdraw from courses in which they are enrolled may be assigned a failing grade ("F") even if they never attend the class and will be held accountable for all tuition and fees.

# Index

## University Transfer Programs

### Associate in Arts Degree

**Art** VPA.ART.AA (U224A50)
**Community Studies** BES.CMS.AA (U224A07)
**Criminal Justice Administration** CJA.CJA.AA (U224A43)
**Education** EDU.EAE.AA (U224A13)
**English and Rhetoric** ENG.RHT.AA (U224A21)
**Foreign Languages** SOC.FLA.AA (U224A16)
**Global Studies** SOC.GLB.AA (U224A06)
**History** SOC.HIS.AA (U224A46)
**Intercultural Studies** SOC.INT.AA (U224A05)
**Mass Communication - Multimedia** VPA.MCM.AA (U224A09)
**Music** VPA.MUS.AA (U224A51)
**Music Technology** VPA.MUT.AA (U224A52)
**Philosophy and Logic** BES.PHL.AA (U224A38)
**Psychology** BES.PSY.AA (U224A42)
**Social and Political Science** SOC.PSC.AA (U224A45)
**Sociology/Social Work** BES.SWK.AA (U224A44)
**Speech Communication** VPA.SPE.AA (U224A23)
**Speech/Theatre** VPA.THE.AA (U224A22)
**Women's and Gender Studies** SOC.WGS.AA (U224A15)

### Associate in Science Degree

**Accounting and Business Administration** BUS.ACC.AS (U230A06)
**Anthropology** BES.ANT.AS (U230A31)
**Biological Sciences** SCI.BIS.AS (U230A26)
**Chemistry** SCI.CHM.AS (U230A28)
**Computer Science (Information Systems)** CIS.CIS.AS (U230A11)
**Computer Science (Technical)** CIS.CST.AS (U230A12)
**Criminal Justice Administration** CJA.CJA.AS (U230A43)
**Economics** SOC.ECO.AS (U230A08)
**Environmental Science** SCI.ENV.AS (U230A29)
**Geology** SCI.GOL.AS (U230A33)
**Health, Sport & Exercise Science** HSE.PED.AS (U230A36)
**International Business** SOC.IBU.AS (U230A07)
**Mathematics** MAT.MAT.AS (U230A27)
**Physics** SCI.PHY.AS (U230A34)
**Pre-Profession** SCI.PPO.AS (U230A30)

### Associate in Fine Arts Degree

**Art** VPA.ART.AFA (U250A50)
**Music** VPA.MUS.AFA (U250M51)

**Associate in General Studies Degree** GEN.GEN.AGS (L224A)
**Undecided** UND.ND **(**L224AP5)

## Career Programs

### Associate in Applied Science Degree Programs

**Accounting/Finance**
- Degree, BUS.ACC.AAS (C206A)
- Certificate—Accounting Assistant, BUS.ACC.CERT (C306A)
- Certificate—Bookkeeping, BUS.BKK.CERT (C416A)
- Advanced Certificate—Certified Public Accountant Pathway, BUS.CPA.CERT (C501A)

**Architecture**
- Degree, ARC.ARC.AAS (C248A)
- Certificate—Architectural Technology, ARC.ARC.CERT (C448T)
- Certificate—Architectural Design, ARC.STD.CERT (C448X)
- Advanced Certificate—Building Information Modeling/BIM, ARC.BMA.CERT (C548M) (formerly ARC.ABM.CERT, C448M)

**Automotive Technology**
- Degree, AUT.AUT.AAS (C247D)
- Certificate, AUT.AUT.CERT (C347C)
- Certificate—Brake and Suspension, AUT.BRK.CERT (C447B)
- Certificate—Engine Performance, AUT.EGP.CERT (C447C)
- Certificate—Engine Repair, AUT.ENR.CERT (C447D)
- Certificate—Transmission Repair, AUT.TRN.CERT (C447E)
- Degree—Automotive Service Department Management, AUT.SDM.AAS (C247E)
- Degree—Automotive: General Motors/AC Delco, AUT.GMC.AAS (C247C)

**Biotechnology Laboratory Technician**
- Degree, BIS.BTC.AAS (C226B)

**Business**
- Degree—Business Management, BUS.MGT.AAS (C206B)
- Certificate—Business Management, BUS.MGT.CERT (C306B)
- Certificate—Entrepreneurship, BUS.ETR.CERT (C406D)
- Certificate—Business Support Specialist, BUS.SUP.CERT (C307D)
- Certificate—Financial Services, BUS.FSV.CERT (C306K)
- Certificate—Medical Administrative Assistant, BUS.MEA.CERT (C407K)
- Certificate—Office Assistant, BUS.OFA.CERT (C407D)

**Certified Medical Assistant**
- Certificate, CMA.CMA.CERT (C318A)

**Computer Information Systems**
- Degree, CIS.CIS.AAS (C207A)
- Degree—Cybersecurity and Information Assurance, CIS.CYB.AAS (C207S)
- Certificate—Cybersecurity and Information Assurance, CIS.CYB.CERT (C407S)
- Certificate—Cloud Computing Systems, CIS.CLD.CERT (C407U)
- Certificate—Database Systems, CIS.DBS.CERT (C407V)
- Certificate—Geographic Information Systems, CIS.GEO.CERT (C407X)
- Certificate—Mobile, Web & Data Science Application Development, CIS.MWB.CERT (C407T)
- Certificate—Office Applications-Prep for Microsoft Certification, CIS.OAP.CERT (C407O)
- Certificate—Systems Administration, CIS.SYA.CERT (C407Y)
- Certificate—Web Technologies, CIS.WEB.CERT (C407J)
- Advanced Certificate—Windows Programming, CIS.WPA.CERT (C515C)
- Degree—Computer Network and Telecommunications Systems Degree, CIS.CNT.AAS (C207F)
- Certificate—A+ Microcomputer Technician, CIS.APL.CERT (C407N)
- Certificate—Network Management, CIS.NTM.CERT (C407M)

**Construction Technology (formerly Building Information Modeling (BIM)**
- Degree, ARC.IBC.AAS (C235A)
- Certificate—Carpentry, ARC.CPT.CERT (C446G)
- Certificate—Plumbing, ARC.PLM.CERT (C446H)

**Criminal Justice Administration**
- Degree, CJA.CJA.AAS (C243A)
- Certificate—Corrections, CJA.COR.CERT (C443A)
- Certificate—Law Enforcement, CJA.LAE.CERT (C443B)
- Certificate—Private Security, CJA.PST.CERT (C443C)

**Early Childhood Education**
- Degree—Credential Transfer Pathway Level IV, EDU.ECE.AAS (C220A)
- Certificate—Early Childhood Credential Continuing Pathway Certificate Level III, EDU.ECE.CERT (C320A)
- Certificate—Early Childhood Career Pathway Level II, ECE.CDA.CERT (C420C)
- Certificate—Infant/Toddler Care, EDU.ITC.CERT (C420B)
- Advanced Certificate—Early Childhood Administration & Management, EDU.CCA.CERT (C520A)
- Degree—Paraprofessional Educator Associate, EDU.PPR.AAS (C220B)
- Certificate—Teacher Aide, EDU.AID.CERT (C320C)

**Emergency Management**
- Degree, EMP.EMP.AAS (C244A)
- Certificate, EMP.EMP.CERT (C344A)

**Emergency Medical Responder**
- Certificate, EMS.EMR.CERT (C444B)
- Certificate—Public Safety Dispatcher, EMS.DIS.CERT (C444C)

**Emergency Medical Technician**
- Certificate, EMS.EMS.CERT (C444A)

**Engineering Technology**
- Degree—Mechanical Design, ENT.ENT.AAS (C248V)
- Certificate—Design, ENT.DSN.CERT (C348B)
- Certificate—Electrical, C446I (ENT.ELC.CERT)
- Certificate—Fabrication, ENT.FAB.CERT (C448S)
- Certificate—Welding, C448Y (ENT.WEL.CERT)
- Degree—Mechatronics, ENT.MEC.AAS (C249V)
- Certificate—Mechatronics, ENT.MEC.CERT (C448V) (formerly C548F)
- Advanced Certificate—CAD, ENT.CAD.CERT (C548E)

**Environmental Science**
- Degree, SCI.EVN.AAS (C226A)

**Eye Care Assistant**
- Certificate, OPH.EYE.CERT (C451A)

**Facilities Engineering Technology** (Only Local 399 students)
- Degree, CE.FET.AAS (C280A)
- Certificate, CE.FET.CERT (C380A)
- Certificate—Critical Systems Maintenance, CE.CSM.CERT (C381A)
- Certificate—Healthcare Facilities Maintenance, CE.HTH.CERT (C382A)
- Certificate—Hospitality Facilities Maintenance, CE.HOS.CERT (C384A)
- Certificate—Mobile Maintenance, CE.MOM.CERT (C383A)

**Fire Science**
- Degree, FIR.FIR.AAS (C243B)
- Certificate, FIR.FIR.CERT (C343A)
- Certificate—Basic Operations Firefighter, FIR.BOP.CERT (C444D)
- Certificate—Company Fire Officer, FIR.CFO.CERT (C444E)
- Advanced Certificate—Fire Officer, FIR.AFO.CERT (C444F)

**Horticulture**
- Degree, HRT.HRT.AAS (C201A)
- Certificate—Grounds Maintenance, HRT.GRM.CERT (C401C)
- Certificate—Landscape Design, HRT.LND.CERT
- Degree—Sustainable Agriculture Technology, HRT.SAG.AAS (C201E)
- Certificate—Sustainable Food Production, HRT.SFD.CERT (C401E)
- Degree—Sustainable Landscape Practices, HRT.SUS.AAS (C201F)
- Certificate—Sustainable Landscape Practices, HRT.SUS.CERT (C401D)
- Certificate—Sustainable Agroecology, HRT.AGR.CERT (C401F)

**Hospitality Industry Administration**
- Degree—Culinary Arts, HIA.CUL.AAS (C206L)
- Certificate—Culinary Training, HIA.CUL.CERT (C420A)
- Degree—Baking and Pastry, HIA.BKG.AAS (C206M)
- Certificate—Baking and Pastry, HIA.BKG.CERT (C306H)
- Certificate—Beverage Management, HIA.BVM.CERT (C306J)
- Certificate—Bread Baking, HIA.BRD.CERT (C406N)
- Certificate—Cake Decoration, HIA.CKD.CERT (C406M)
- Degree—Hotel/Motel Management, HIA.HMM.AAS (C206H)
- Certificate—Hotel/Motel Management, HIA.HMM.CERT (C406F)
- Degree—Restaurant Management, HIA.RST.AAS (C206F)
- Certificate—Restaurant Management, HIA.RST.CERT (C306C)

**Human Resource Management**
- Degree, BUS.HRM.AAS (C206J)
- Certificate, BUS.HRM.CERT (C306F)

**Personal Trainer**
- Certificate, HSE.PTR.CERT (C336A)
- Advanced Certificate—Clinical Exercise Specialist, HSE.XSP.CERT (C536A)
- Advanced Certificate—Group Fitness Instructor, HSE.GFT.CERT (C536C)
- Advanced Certificate—Sports Conditioning, HSE.SCP.CERT (C536B)

**Renewable Energy Technology**
- Degree, BIS.REN.AAS (C260A)

**Visual Communication—Graphic Design**
- Degree, VIC.VIC.AAS (C248C)
- Certificate, VIC.GRD.CERT (C348C)
- Certificate—Social Media Design, VIC.DGM.CERT 0(C448U)
- Degree—Digital Photography, VIC.DPH.AAS (C249C)
- Certificate—Digital Photography, VIC.DPH.CERT (C348O) (formerly C448O)
- Certificate—Layout and Design, VIC.LDS.CERT (C448W)

## Selective Admission Health Programs

**Diagnostic Medical Sonography**
- Degree, DMS.DMS.AAS (C217E)
- Certificate, DMS.DMS.CERT (C317E)

**Nuclear Medicine Technology**
- Degree, NUM.NUM.AAS (C217B)

**Nurse Assistant**
- Certificate, NAS.NAS.CERT (C417E)

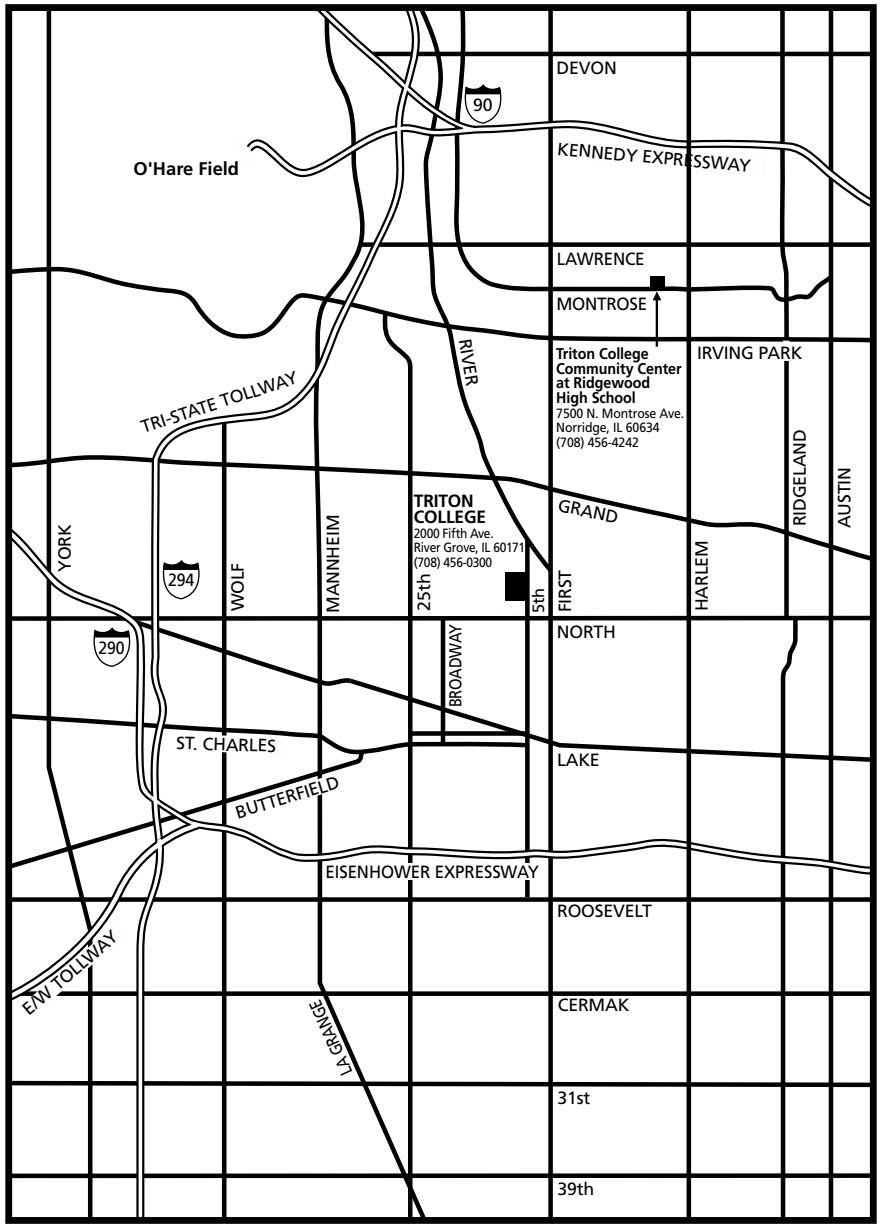
**Nursing**
- Degree, NUR.NUR.AAS (C218A)

**Ophthalmic Technician**
- Degree, OPH.OPH.AAS (C217I)

**Radiologic Technology**
- Degree, RAS.RAS.AAS (C217C)

**Sterile Processing Technician**
- Certificate, SRT.SPT.CERT (C417G)

**Surgical Technology**
- Degree, SRT.SRT.AAS (C317C)




**DRIVING DIRECTIONS TO TRITON COLLEGE**

**From the South:** Exit from the Tri-State Tollway (I-294) onto the Eisenhower Expressway (I-290), heading east toward downtown Chicago. Exit the Eisenhower at First Avenue and turn left (north). Travel to North Avenue, turn left and drive west to the next stoplight, which is Fifth Avenue. Turn right and drive north on Fifth Avenue to the next stoplight. Turn left (west) and then immediately right; go around Circle Drive to the visitor's parking area.

**From the East:** Travel west on North Avenue to Fifth Avenue (just past First Avenue). Turn right and drive north on Fifth Avenue to the next stoplight. Turn left (west) and then immediately right; go around Circle Drive to the visitor's parking area.

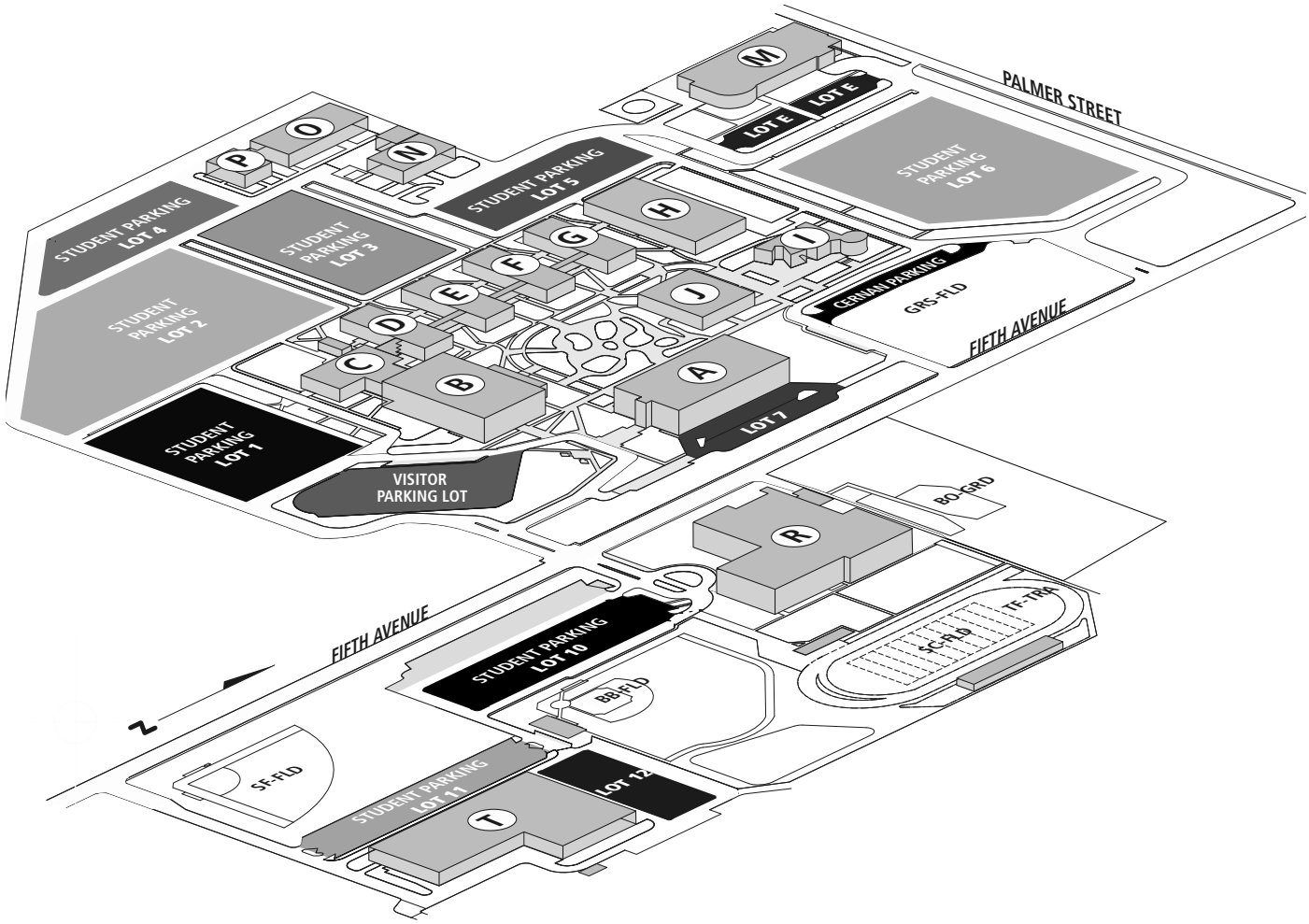
**From the West:** Travel east on North Avenue to Fifth Avenue (just past the Winston Plaza Shopping Center). Turn left and drive north on Fifth Avenue to the next stoplight. Turn left (west) and then immediately right; go around Circle Drive to the visitor's parking area.

**From the North:** Exit from the Tri-State Tollway (I-294) at Irving Park Road (Illinois 19), heading east to River Road. Turn right (south) on River Road. Stay to the right at Fifth Avenue to reach the main campus (second stoplight). Turn right (west) and then immediately right again; go around Circle Drive to the visitor's parking area.

***PLEASE NOTE:*** There is NO exit from the Tri-State Tollway (I-294) at North Avenue.

# Triton College

2000 Fifth Ave. | River Grove, IL 60171
(708) 456-0300 | triton.edu




## Quick Reference Building Guide

**A** Learning Resource Center (Adult Education, Library, School of Continuing Education, Testing Center, Center for Access and Accommodative Services)
**B** Student Center (Admission and Records, Welcome Desk, Financial Aid, Cashier's Office)
**C** Bookstore
**I** Cernan Earth and Space Center
**J** Gallery, Cox Theater
**N** Triton College Police Station
**R** Robert M. Collins Center (Triton College Performing Arts Center, Older Adults Center, Fitness Center, Pool)

**BB-FLD** Baseball Field
**BO-GRD** Botanic Garden
**GRS-FLD** Grass Field
**SC-FLD** Soccer Field
**SF-FLD** Softball Field
**TF-TRA** Track Field

# Notes