

## Degrees and Certificates



## Academic Degrees and Certificates

Prairie State College offers associate's degrees that prepare students for transfer to four-year institutions, associate's degrees and certificates that prepare students for specific careers, and an associate's degree that recognizes completion of a broad range of college-level courses.

### Transfer Degrees

*The Associate in Arts degree (A.A.)* includes the first two years of study for students who plan to pursue a bachelor's degree in liberal arts.

*The Associate in Science degree (A.S.)* covers the first two years of study for students pursuing a bachelor's degree in engineering, mathematics, or science.

*The Associate in Fine Arts: Art degree (A.F.A.)* is designed to prepare students to transfer as juniors into a bachelor's degree program (B.F.A.) in Studio Art. Students are encouraged to complete their core courses in art before enrolling in media specific studio courses. A portfolio review is usually required for transfer to a four-year institution.

*The Associate of Arts in Teaching degree (A.A.T.)* is a two-year program designed for students preparing for careers in secondary education. It provides a foundation in teacher education, field-based experiences, and discipline-specific content. Current A.A.T. degrees are designed to facilitate transfer for students who intend to teach in high-need disciplines.

### General Studies Degree

*The Associate in General Studies degree (A.G.S.)*, while not intended for transfer or directed at a specific occupation, allows students to design their own two-year program. See the section about A.G.S. degrees.

### Career Program Degrees and Certificates

*The Associate in Applied Science (A.A.S.)* represents completion of a minimum of 60 credit hours in a technical or career program.

*Certificates* are awarded after completion of up to 50 credits that focus on specific occupational or technical areas of study. For detailed information about career degree and certificate programs, see the Career Programs section later in the catalog.

## Illinois Articulation Initiative (IAI)

[www.itransfer.org](http://www.itransfer.org)

Prairie State College participates in the Illinois Articulation Initiative (IAI), a statewide transfer agreement among more than 100 participating colleges, universities, or community colleges in Illinois. IAI works best for students who know they are going to transfer but undecided on the college or university that will grant their baccalaureate degree. All colleges and universities participating in the IAI agree to accept a "package" of IAI general education courses in lieu of their own comparable lower-division general education requirements. It is important to keep in mind that the IAI General Education Core Curriculum transfers as a package. Course-to-course transfer is not guaranteed. IAI also includes major recommendations for the first two years of college in several popular majors. Faculty panels, which have expertise in the major field of study, created these recommendations. IAI major recommendations work best for students who have chosen their majors, are going to eventually transfer, but are undecided on the college or university that will grant their baccalaureate degree.

### Understanding IAI

1. The IAI Agreement and the iTransfer Web site are designed to simplify transferring to any participating school. Always seek the advice of academic advisors at Prairie State College and the school you plan to attend when making transfer plans.
2. Articulation is the process of transferring courses from one school to another and identifying the way the classes will be used at the receiving school.
3. The Illinois General Education Core Curriculum is for transfer students only.
4. To guarantee that you receive full credit, you should complete the Illinois General Education Core Curriculum package before transferring. When it is not completed before transfer, each college or university decides how to apply each individual course.
5. The Illinois General Education Core Curriculum requires a total of 12 to 13 courses (37 to 41 semester credits).
6. The General Education requirements at Prairie State College are aligned with the five major areas (fields or categories) within the Illinois General Education Core Curriculum: Area A-Communication, Area B-Humanities and Fine Arts, Area C-Mathematics, Area D-Physical and Life Sciences, and Area E-Social and Behavioral Sciences.
7. The Illinois General Education Core Curriculum became effective statewide in the summer of 1998.
8. Application of credit earned prior to summer 1998 is the decision of the receiving institution. For information about IAI and graduation requirements, see page 48.
9. There are two types of undergraduate degrees: the associate's degree and the bachelor's degree.
10. The IAI identifies courses which will apply to specific majors. Prairie State College students are encouraged to complete an Associate in Arts, Associate in Science, Associate in Fine Arts, or Associate of Arts in Teaching degree prior to transfer.

## IAI Participating Schools

There are 95 schools in Illinois that are currently recognized by IAI as full-participating schools, and 18 schools currently recognized as a receiving-only schools. In addition to two-year public colleges (48 schools), there are two-year independent institutions, and four-year public and independent institutions. The following list of four-year institutions is provided to assist in transfer planning. Institutions identified as [R] are receiving institutions only.

### Four-Year Public Institutions

- Chicago State University
- Eastern Illinois University
- Governors State University [R]
- Illinois State University
- Northeastern Illinois University
- Northern Illinois University
- Southern Illinois University at Carbondale
- Southern Illinois University at Edwardsville
- University of Illinois at Chicago
- University of Illinois at Springfield
- University of Illinois at Urbana
- Western Illinois University

### Four-Year Independent Institutions

- American InterContinental University [R]
- Argosy University [R]
- Aurora University
- Benedictine University
- Blackburn College
- Bradley University
- Concordia University
- DePaul University
- DeVry University, Chicago and DuPage
- Dominican University
- East-West University [R]
- Ellis College of New York Institute of Technology [R]
- Elmhurst College
- Eureka College [R]
- Illinois Institute of Art - Chicago [R]
- Illinois Institute of Technology
- ITT Technical Institute [R]
- Judson College
- Kendall College
- Knox College [R]
- Lake Forest College [R]
- Lakeview College of Nursing [R]
- Lewis University
- Lexington College
- Lincoln Christian University
- Lincoln College
- MacMurray College
- McKendree College [R]
- Midstate College
- Milliken University
- NAES College [R]
- National-Louis University
- North Central College
- North Park University

- Olivet Nazarene University
- Quincy University
- Robert Morris College
- Rockford College
- Roosevelt University
- Saint Anthony College of Nursing [R]
- Saint Augustine College
- Saint Francis Medical Center, Nursing [R]
- Saint Xavier University
- St. Augustine College
- Trinity Christian College
- University of St. Francis
- West Suburban College of Nursing [R]

Additional information about the IAI is available from the Prairie State College Transfer Coordinator or by visiting the IAI Web site at [www.itransfer.org](http://www.itransfer.org).

### IAI Course Codes

IAI has its own course numbering sequence for the Illinois Transferable General Education Core Curriculum. Here is an example of an IAI GECC course –

S7 903D: Racial and Ethnic Relations

This code would be noted for a PSC course listed in this catalog as follows:

SOCIO 220 Race Relations: A Multicultural Perspective  
(IAI: S7 903D)

The first letter in the IAI GECC code indicates the discipline field for the course. The letter S, for example, indicates Social/Behavioral Sciences. IAI letter codes and their corresponding disciplines are as follows:

#### *General Education Core Curriculum Course Codes:*

IAI: C Communications

IAI: F Fine Arts

IAI: H Humanities

IAI: HF Interdisciplinary Humanities/Fine Arts

IAI: HS Interdisciplinary Humanities/Fine Arts and Social/Behavioral Sciences

IAI: L Life Sciences

IAI: LP Interdisciplinary Physical and Life Science

IAI: M Mathematics

IAI: P Physical Sciences

IAI: S Social/Behavioral Sciences

The first number after the letter indicates the sub-area of the discipline. The S7 in this example represents the Sociology subarea of Social/Behavioral Sciences. The next numbers represent the unique content category within this subdiscipline. Letters at the end of course numbers identify specific perspectives related to the course. The D in S7 903D, for example, represents courses that examine aspects of human diversity within the United States. Other end-of-course letters include:

**N** for courses designed to examine aspects of human diversity from a non-U.S./non-European perspective.

**L** for laboratory courses

**R** for research paper courses

## Transfer Degree Guidelines

The A.A., A.S., A.F.A., and A.A.T. degrees meet the guidelines of the Illinois Articulation Initiative “Transferable General Education Core Curriculum” and the Illinois Community College Board “Guidelines for Associate Degrees Designed for Transfer”.

### Transfer Degree Admissions Requirements

Students applying for admission to a baccalaureate transfer program must have 15 high school credits distributed as follows:

- 4 credits in English (*written and oral communication, literature*)
  - 3 credits in Mathematics (*introductory through advanced algebra plus geometry*)
  - 3 credits in Social Studies (*emphasizing history and government*)
  - 3 credits in Science (*laboratory science*)
  - 2 credits in electives (*foreign language, art, music, vocational education*)
- (Illinois Public Act 86-0954)

Students who have academic deficiencies in these minimum requirements can satisfy these deficiencies upon successful completion of 24 transferable credit hours (with a minimum GPA of 2.0) which must include ENG 101 Composition I (3), COMM 101 Principles of Communication (3), one social science course, one four-credit laboratory science course, and one college-level mathematics course.

### Transfer Degree Graduation Requirements

Prairie State College offers four transfer degrees:

- Associate in Arts (A.A.),
- Associate in Science (A.S.),
- Associate in Fine Arts: Art (A.F.A.), and
- Associate of Arts in Teaching: Secondary Mathematics (A.A.T.).

Candidates for these degrees must fulfill the following requirements:

1. Enrolled at Prairie State College for the two semesters immediately preceding graduation, successfully completing at least 15 credit hours at Prairie State College (excluding proficiency credits).
2. Candidates for the A.F.A. Degree must complete 61-62 credit hours including the Transferable General Education Core Curriculum of 31-32 credits. Candidates for the A.A. or A.S. Degree must complete 62 semester hours of college credit as specified, including Transferable General Education Core Curriculum of 37-41 credits.
3. Attained a minimum cumulative grade point average of 2.0 on a 4.0 scale in all Prairie State College courses for A.A., A.S. and A.F.A. degrees, and a minimum cumulative grade point average of 2.5 for A.A.T. degrees.
4. Filed appropriate evidence of high school graduation or GED certification with the Enrollment Services Office.

### Transfer Degree Components

There are three components of degree programs: The Transferable General Education Core Curriculum, the area of concentration or major field, and electives.

## I. Transferable General Education Core Curriculum Requirements

A.A./A.S. Degrees: 37-41 credit hours

A.F.A. Degree: 31-32 credit hours

A.A.T. Degree: 39-40 credit hours

## The General Education Core

The goal of general education is to help students understand the world they live in. The core curriculum consists of liberal arts courses in five key areas: communication, humanities and the fine arts, social sciences, mathematics, and science. Education in these disciplines develops habits of mind like curiosity, critical thinking and introspection that help one adapt to the changing world. Courses in English and Communication foster the ability to read critically and speak and write effectively. Those in the humanities and social science broaden understanding of different cultures and lead to an appreciation of the diversity of human experience. Mathematics and science courses develop the ability to analyze problems and find solutions, while courses in literature, music, and the fine and performing arts enrich understanding of human nature, enhance aesthetic appreciation, and broaden understanding of human nature and society. Taken together, study in these traditional academic disciplines leads to a better understanding of the key issues that face our society and helps students become more responsible citizens.

Prairie State College's General Education Core is designed to ensure that all our students develop competencies in the following areas:

### Communication

Students will read with comprehension, listen critically, and speak and write effectively.

### Critical Thinking

Students will analyze problems, develop solutions, and evaluate results, forming a self-conscious habit of inquiry as a foundation for a lifetime of continuous learning and personal transformation.

### Knowledge

Students will be able to organize and apply discipline-specific ways of knowing.

### Social and Cultural Awareness

Students will understand and recognize the values and ethics of Western and non-Western cultural traditions, and appreciate the diversity of human experience both within the United States and throughout the world.

### Literacy

Students will function with competence in writing, working with numbers, speaking in large and small groups, using basic technology for learning, and evaluating information from a range of sources.

## Area A: Communication

• A.A., A.S., A.F.A., A.A.T.: 9 semester hours

To facilitate development of these essential abilities, students take courses in the following areas:

The purpose of courses in writing and speaking is to foster the ability to communicate effectively with others, whether in speech or writing. The complexities of the modern world require the ability to think independently and express ideas clearly. Because these courses provide such important foundation skills, students should complete them early in the degree program so what they learn can improve their performance in other courses. Satisfactory completion of the required writing course sequence, ENG 101 Composition I and ENG 102 Composition II, will mean a grade of “C” or better in both courses.

The following 3 courses (9 credit hours), including a two-course sequence in writing and one course in oral communication, are required:

### Writing Course Sequence [IAI Code]

ENG 101 [C1 900] Composition I - with a grade of C or better (3)

Note: All students must write a passing English 101 Portfolio in order to pass ENG 101

ENG 102 [C1 901R] Composition II - with a grade of C or better (3)

### Oral Communication [IAI Code]

COMM 101 [C2 900] Principles of Communication (3)

## Area B: Humanities and Fine Arts

• A.A., A.S., A.A.T.: 9 credit hours

• A.F.A.: 6 credit hours from Humanities only

Study in the Humanities, Fine Arts, and Philosophy helps develop an understanding of what it means to be human. These courses expose students to great works of literature, art, music, and theater, enhancing their appreciation and understanding of the arts. They also examine the religious traditions and cultural expressions of people in a variety of cultures who have struggled to understand the basic questions that confront human beings – questions about good and evil, identity, courage, love, truth, justice, and morality.

Select 2 or 3 courses (6 or 9 credit hours), with at least one course selected from fine arts and at least one course from the humanities:

### Fine Arts Courses

#### Art [IAI Code]

ART 121 [F2 901] History of Western Art I (3)

ART 122 [F2 902] History of Western Art II (3)

ART 126 [F2 904] History of Photography (3)

ART 129 [F2 900] Art Appreciation (3)

[not accepted for A.F.A. Degree]

ART 131 [F2 903N] Survey of Non-Western Art (3)

#### Music [IAI Code]

MUSIC 130 [F1 900] Music Appreciation (3)

MUSIC 132 [F1 904] American Music (3)

#### Theatre [IAI Code]

THTRE 101 [F1 907] Understanding Theatre (3)

#### Foreign Languages [IAI Code]

SPAN 202 [H1 900] Spanish IV (4)\*

\*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.

## Humanities [IAI Code]

HUMAN 101 [H5 904N] Comparative Religions (3)

HUMAN 102 [H5 901] Foundational Religious Texts (3)

HUMAN 201 [H9 900] Humanities Themes: Myth, Reason, & God (3)

## Literature [IAI Code]

ENG 211 [H3 914] American Literature I (3)

ENG 212 [H3 915] American Literature II (3)

ENG 215 [H3 910D] African-American Literature (3)

ENG 221 [H3 903] Introduction to Poetry (3)

ENG 231 [H3 912] British Literature I (3)

ENG 232 [H3 913] British Literature II (3)

ENG 240 [H3 901] Introduction to Fiction (3)

ENG 243 [H3 908N] Non-Western Literature in English (3)

ENG 252 [H3 902] Introduction to Drama (3)

ENG 261 [H3 906] Western/World Literature I (3)

ENG 262 [H3 907] Western/World Literature II (3)

ENG 271 [H3 905] Introduction to Shakespeare (3)

## Philosophy [IAI Code]

PHILO 201 [H4 900] Introduction to Philosophy (3)

PHILO 202 [H4 904] Ethics (3)

PHILO 203 [H4 906] Introduction to Logic (3)

PHILO 204 [H4 905] Philosophy of Religion (3)

PHILO 205 [H4 903N] Eastern Philosophy (3)

*Interdisciplinary Humanities and Fine Arts [IAI Code] may be used for either humanities or fine arts credit.*

ENG 256 [HF 908] Film & Literature (3)

HUMAN 202 [HF 900] Form and Structure in the Arts (3)

## Area C: Mathematics (3-6 credit hours)

Mathematics focuses on quantitative reasoning as a basis for understanding the relationships found in both work and everyday life.

Mathematics provides the tools and skills necessary to organize thinking, apply problem-solving strategies and recognize patterns and processes across many different fields.

Mathematics is also used to determine reasonableness, identify alternatives and select optimal results.

Select 1 to 2 courses (3 to 6 credit hours) from:

### Mathematics [IAI Code]

MATH 112 [M1 904] General Education Math (3)

MATH 115 [M1 902] General Education Statistics (3)

*MATH 112 and 115 are recommended for A.A. and A.F.A. students who do not intend to take higher levels of mathematics.*

BUS 240 [M1 902] Elementary Statistics (4)

MATH 153 [M1 902] Probability and Statistics (4)

*MATH 153 is intended for students with advanced math skills; it may be taken in place of MATH 115. Students can receive credit for only one of BUS 240, MATH 115 and 153.*

MATH 155 [M1 906] Finite Mathematics (4)

MATH 157 [M1 900-B] Calculus for Business and Social Science (4)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

MATH 172 [M1 900-2] Calculus with Analytic Geometry II (5)

MATH 173 [M1 900-3] Calculus with Analytic Geometry III (5)

MATH 206 [M1 903] Mathematics for Elementary Teaching II (4)\*\*

MATH 210 [M1 905] Discrete Mathematics (3)

\*\*Prerequisite: MATH 200 Mathematics for Elementary Teaching I (4)

\*\*MATH 206 fulfills general education requirements only for students seeking state certification as elementary teachers. Students must complete both MATH 200 and 206 prior to transfer.

## Area D: Physical and Life Sciences

- A.A., A.S., A.F.A., A.A.T.: 7-8 semester hours

The study of science helps students learn how the scientific method is used to discover new truths and re-assess old ones. In science courses, students learn how scientists formulate and test hypotheses to investigate and understand phenomena in the natural world. By participating in laboratory sessions where they use the scientific method themselves, students get first hand experience in how scientists think. Students also become familiar with the physical and biological concepts developed through scientific study. Familiarity with these scientific principles promotes understanding of the natural world and enhances the ability to make informed decisions about environmental, health, and technological problems.

Select two courses (7-8 credit hours), with one course selected from the life sciences and one course from the physical sciences and including at least one laboratory course from:

(The "L" in the IAI code indicates a "lab science" course.)

### Life Science Courses [IAI Code]

BIOL 100	[LI 900L]	General Education Biology (4)
BIOL 103	[LI 901]	Plants and Society (3)
BIOL 105	[LI 905]	Environmental Biology (3)
BIOL 106	[LI 906L]	Heredity and Society (4)
BIOL 112	[LI 900L]	Organismal Biology (4)*

\*This course is intended for science majors only and should not be selected by non-science majors to meet general education science requirements. Students cannot receive credit for both BIOL 100 and 112. Students who demonstrate successful completion of BIOL 111 may use this course to fulfill their general education life science requirement.

### Physical Science Courses [IAI Code]

ASTRO 101	[PI 906]	Guide to the Universe (3)
ASTRO 104	[PI 906L]	The Solar System and Beyond (4)
CHEM 105	[PI 902L]	Survey of General Chemistry (4)
CHEM 110	[PI 902L]	General Chemistry I (5)*

\*This course is intended for science majors only and should not be selected by non-science majors to meet general education science requirements. Student cannot receive credit for both CHEM 105 and 110.

GEOG 105	[PI 909]	Introduction to Physical Geography (3)
GEOLO 101	[PI 907L]	Physical Geology (4)
METEO 150	[PI 905]	Introduction to Meteorology (3)
PHYS 111	[P9 900L]	Physical Science (4)
PHYS 112	[P9 905L]	Earth Science (4)

Students cannot receive credit for both METEO 150 and PHYS 112.

PHYS 101	[PI 901L]	Conceptual Physics (4)
PHYS 120	[PI 900L]	College Physics I (4)*
PHYS 210	[P2 900L]	University Physics I (4)

\*This course is intended for science majors only and should not be selected by non-science majors to meet general education science requirements. Student cannot receive credit for both PHYS 120 and 210.

## Area E: Social and Behavioral Sciences

- A.A., A.S., A.A.T.: 9 credit hours

- A.F.A.: 6 credit hours

The Social Sciences focus on an appreciation of human continuity and change on both the personal and societal level. Through analysis of historical, political, cultural and economic institutions, students become better able to understand themselves and their own society. They also develop insights into contemporary life including a broader understanding of how society works and what good citizenship means. They also become more self-aware and more attuned to issues relating to the environment, diversity, and social justice. In these courses, students are encouraged to become more reflective and use their new insights to think about how to address contemporary problems. Select two or three courses (6 or 9 credit hours), with courses selected from at least two disciplines, from:

### Anthropology [IAI Code]

ANTHR 215	[S1 900N]	Introduction to Anthropology (3)
ANTHR 222	[S1 901N]	Introduction to Cultural and Social Anthropology (3)

### Economics [IAI Code]

ECON 201	[S3 901]	Macroeconomic Principles (3)
ECON 202	[S3 902]	Microeconomic Principles (3)

### Geography [IAI Code]

GEOG 101	[S4 900N]	Cultural Geography (3)
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### History [IAI Code]

HIST 111	[S2 912N]	World History: Origins to 1714 (3)
HIST 112	[S2 913N]	World History: 1714 to Present (3)
HIST 115	[S2 906N]	African Civilizations I (3)
HIST 116	[S2 907N]	African Civilizations II (3)
HIST 140	[S2 910N]	History of Latin America (3)
HIST 151	[S2 902]	History of Western Civilization I (3)
HIST 152	[S2 903]	History of Western Civilization II (3)
HIST 201	[S2 900]	U.S. History 1492-1877 (3)
HIST 202	[S2 901]	U.S. History 1877 to Present (3)

### Political Science [IAI Code]

POLSC 101	[S5 903]	Principles of Political Science (3)
POLSC 140	[S5 900]	Introduction to U.S. Government and Politics (3)
POLSC 152	[S5 902]	U.S., State and Local Government (3)
POLSC 230	[S5 905]	Introduction to Comparative Government (3)
POLSC 240	[S5 904]	Introduction to International Relations (3)

### Psychology [IAI Code]

PSYCH 101	[S6 900]	Introduction to Psychology (3)
PSYCH 102	[S6 902]	Human Growth and Development: Life-Span (3)
PSYCH 215	[S8 900]	Social Psychology (3)

### Sociology [IAI Code]

SOCIO 101	[S7 900]	Introduction to Sociology (3)
SOCIO 111	[S7 901]	Contemporary Social Issues (3)
SOCIO 210	[S7 902]	Marriage and the Family (3)
SOCIO 215	[S7 904D]	Sex, Gender and Power (3)
SOCIO 220	[S7 903D]	Race Relations: A Multicultural Perspective (3)

## **II. Area of Concentration/Major Field**

A.A./A.S.: 12 credit hours

A.F.A.: 21 credit hours

A.A.T.: 25-26 credit hours

The Associate in Fine Arts Degree requires 21 credits of 100-level or above transfer courses from any of the following areas of concentration. The Associate of Arts and Associate in Science degrees require 12 credits from the same group of courses (of 100-level or above transfer courses from any of the following areas of concentration). To review the suggested curriculum for specific areas of concentration, see Transfer Degree Areas of Concentration earlier in this section. Depending upon the chosen course of study, additional credit hours may be recommended in the area of concentration, reducing the elective courses.

## **III. Electives (9-13 credit hours)**

The A.F.A. Degree requires 9 semester hours of media specific courses to meet a total of 61 credits. The A.A. and A.S. Degrees require an additional 9-13 credit hours to meet a degree total of 62 credits. The elective courses must be selected from transfer courses of 100 level or above. Developmental, community service, and vocational/technical courses cannot be used to satisfy degree requirements in the A.F.A. or A.A./A.S. degree. No more than four credits of physical education courses can be applied to a degree.

## **Required Transfer Degree Credit Hours:**

**A.A./A.S.: 62, A.F.A.: 61, A.A.T.: 64**

## **Dual Degree Graduation Requirement**

Students who wish to receive both the Associate in Arts and the Associate in Science degrees must complete an additional 12 credit hours in the second concentration area that is selected.

## **Transfer Credit Guarantee**

Courses taken by students who earn an Associate in Fine Arts: Art (A.F.A.) Degree or an Associate in Arts (A.A.), or Associate in Science (A.S.) Degree will transfer to Illinois state colleges or universities (including Purdue University Calumet at Hammond) as identified and defined in the Course Equivalency Tables (CET) on file at PSC's Transfer Center. If a course is taken and successfully completed in compliance with the CET and not accepted in transfer, Prairie State College will refund the tuition for the course. Call (708) 709-3508 for details.

## Transfer Degree Areas of Concentration

A suggested curriculum of study is proposed for each transfer degree area based on PSC degree requirements, IAI majors panels and/or articulation agreements with specific four-year institutions.

### degree

Art (A.F.A.)  
 Art/Art History (A.A.)  
 Art Education (A.A.)  
 Astronomy (A.S.)  
 Biological Sciences (A.S.)  
 Business (A.A.)  
 Chemistry (A.S.)  
 pre-Clinical Laboratory Science (A.S.)  
 Communication Disorders (A.A.)  
 Computer Science: Information Systems Emphasis (A.S.)  
 Computer Science: Technical Emphasis (A.S.)  
 Criminal Justice (A.A.)  
 pre-Dentistry (A.S.)  
 Education: Early Childhood Education (A.A.)  
 Education: Associate of Arts in Teaching:  
     Secondary Mathematics (A.A.T.)  
 Education: Teacher Education (A.A.)  
 Engineering (A.S.)  
 English/Literature (A.A.)  
 General Math/Science (A.S.)  
 Geology (A.S.)  
 Health Administration (A.A.)  
 History (A.A.)  
 Industrial Technology (A.A.)  
 pre-Law (A.A.)  
 Liberal Arts (A.A.)  
 Mass Communication: Advertising/Public Relations (A.A.)  
 Mass Communication: Multimedia (A.A.)  
 Mass Communication: Radio/TV/Film (A.A.)  
 Mathematics (A.S.)  
 pre-Medicine (A.S.)  
 Music Education (A.A.)  
 Music Performance (A.A.)  
 pre-Nursing (A.S.)  
 pre-Occupational Therapy (A.S.)  
 pre-Pharmacy (A.S.)  
 Photography (A.A.)  
 Physical Education (A.A.)  
 Physical Science (A.S.)  
 pre-Physical Therapy (A.S.)  
 Physics (A.S.)  
 Political Science (A.A.)  
 Psychology (A.A.)  
 Social Work (A.A.)  
 Sociology (A.A.)  
 Speech Communication (A.A.)  
 Theatre Arts (A.A.)

For information about the Associate in General Studies degree, turn to page 80.

For information about Career Programs, both A.A.S. degrees and certificates, turn to pages 81.

Please refer to the General Education Core on pages 48 to 51 for course selection information.

## Art

### Associate in Fine Arts: Art

**A.F.A. Degree • Suggested Curriculum**

The Associate in Fine Arts degree (A.F.A.) is designed to prepare students to transfer as juniors into a bachelor's degree program (B.F.A.) in Studio Art. Students are encouraged to complete their core courses in Art before enrolling in media specific studio courses. A portfolio is usually required for transfer to a four-year institution. Students are strongly encouraged to consult with their instructors and with the PSC Counseling and Academic Advising Center (or with the university where they expect to transfer) for information regarding the most appropriate courses to take while at Prairie State College.

#### I. General Education Core (31-32)

##### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

##### Area B: Humanities & Fine Arts (6 credits)

Select two IAI humanities courses from the list for Area B

##### Area C: Mathematics (3 credits)

MATH 112 [M1 904] General Education Mathematics (3)

or

MATH 115 [M1 902] General Education Statistics (3)

##### Area D: Physical & Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

##### Area E: Social & Behavioral Sciences (6 credits)

Select two courses from different disciplines from the list for Area E.

#### II. Area of Concentration/Major Field (21)

ART 101 Two Dimensional Design (3)  
 ART 102 Three Dimensional Design (3)  
 ART 104 Drawing I (3)  
 ART 106 Drawing II (3)  
 ART 121 History of Western Art I (3)  
 ART 122 History of Western Art II (3)  
 ART 162 Life Drawing (3)

#### III. Electives/Studio Courses (9)

Select 9 credits of media specific studio courses from at least two media. Choose from the following areas of concentration in consultation with an art department advisor:

##### Art:

ART 109 Ceramics (3)  
 ART 201 Painting I (3)  
 ART 202 Painting II (3)  
 ART 205 Printmaking (3)

##### Graphic Design:

ART 115 Introduction to Computer Art (3)  
 GC 151 Principles of Graphic Design (3)

##### Photography:

PHOTO 171 Introduction to Black & White Photography (3)

**Required A.F.A. Degree Program Total: 61 credits**

## Art/Art History

**A.A. Degree • Suggested Curriculum**

PSC offers the foundation courses in art appreciation, art history, and studio art required in the first two years of the Art major. Through painting, drawing, graphic design, and photography, students may pursue a variety of interests. Students planning to pursue a baccalaureate degree should be aware that transfer admission to art-related programs is competitive, and a portfolio is generally required for admission to the major as well as for registration in advanced art courses and for scholarship consideration. Each senior institution has its own transfer policies; we cannot guarantee the accuracy of this information in regard to every individual school. Consult the school of your choice and/or a PSC advisor to discuss the transferability of courses.

#### I. General Education Core (37-38)

##### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

##### Area B: Humanities and Fine Arts (9 credits)

Select three courses other than Art History from the list for Area B with at least one course from humanities and one course from fine arts.

##### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

##### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

##### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

#### II. Area of Concentration/Major Field (24-25)

ART 101 Two Dimensional Design (3)  
 ART 102 Three Dimensional Design (3)  
 ART 104 Drawing I (3)  
 ART 106 Drawing II (3)  
 ART 121 History of Western Art I (3)  
 ART 122 History of Western Art II (3)

Completion of the Art Core courses is recommended before enrolling in Media-Specific studio courses. Select studio art courses from at least two media. Students should complete the core courses listed above before enrolling in studio courses. (6-7 credits)

##### Art:

ART 109 Ceramics (3)  
 ART 162 Life Drawing (3)  
 ART 201 Painting I (3)  
 ART 202 Painting II (3)  
 ART 205 Printmaking (3)

##### Graphic Design:

ART 115 Introduction to Computer Art (3)  
 GC 151 Principles of Graphic Design (3)

##### Photography:

PHOTO 171 Introduction to Black & White Photography (3)

#### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Art Education

### A.A. Degree • Suggested Curriculum

To teach art in Illinois public schools, teachers must be certified by the State of Illinois. To transfer into an approved baccalaureate program in art education as a junior, students must complete a minimum of 60 semester credits. Since admission is competitive, completion of the courses recommended below does not guarantee admission. Community and junior college students are strongly encouraged to complete an Associate in Arts degree prior to transfer. Students should be aware that a minimum grade point average of 2.5 on a 4.0 scale is required for program admission, and passage of a basic skills (reading, writing, grammar, and math) test also is required.

### I. General Education Core (38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course selected from humanities and one course from fine arts.

ART 121 [F2 901] History of Western Art I (3)  
 ART 122 [F2 902] History of Western Art II (3)  
 ENG (200 Level) Select any Literature Course (3) **or**  
 HUMAN 101 [H5 904N] Comparative Religions (3)

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

HIST 201 [S2 900] U.S. History: 1492 to 1877 (3) **or**  
 HIST 202 [S2 901] U.S. History: 1877 to Present (3)  
 POLSC 140 [S5 900] Introduction to U.S. Government & Politics (3)  
 PSYCH 101 [S6 900] Introduction to Psychology (3)

### II. Area of Concentration/Major Field (15-21)

Art Core Courses (12 credits)

ART 101 Two Dimensional Design (3)  
 ART 102 Three Dimensional Design (3)  
 ART 104 Drawing I (3)  
 ART 106 Drawing II (3)

Media-Specific Studio Art Course (3-9 credits)

Select at least one studio art course from the following:

ART 109 Ceramics (3)  
 ART 162 Life Drawing (3)  
 ART 201 Painting I (3)  
 ART 205 Printmaking (3)  
 GC 151 Principles of Graphic Design (3)  
 PHOTO 171 Introduction to Black & White Photography (3)

### III. Electives (3-9)

Select from the following teacher education electives:

ED 100, 101, 160, 212 (3)

Additional non-Western course from: ART 131, GEOG 101, HUMAN 101, or HIST 115, 116, 140 (3)

**Required A.A. Degree Program Total: 62 credits**

## Astronomy

**A.S. Degree • Suggested Curriculum**

The astronomer is concerned with the Earth and its position in the solar system and the universe. Employment opportunities include the National Aeronautics and Space Administration (NASA), air traffic control, and weather forecasting and monitoring. In the typical four-year curriculum, the first two years are spent studying the basic sciences, including mathematics and physics. The last two years emphasize advanced mathematics and science courses. Prairie State College offers courses comparable to the first two years of the curriculum required for a major in astronomy and will grant the Associate in Science degree to successful students.

### I. General Education Core (39-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (7-8 credits)

ASTRO 104 [PI 906L] The Solar System and Beyond (4)  
 Life Science Elective (3-4)

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (17)

MATH 172 Calculus with Analytic Geometry II (5)  
 PHYSI 210 University Physics I (4)  
 PHYSI 220 University Physics II (4)  
 PHYSI 230 University Physics III (4)

### III. Electives (5-6)

Select additional science, calculus, and foreign language courses or other general education core courses.

### Required A.S. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Biological Sciences

**A.S. Degree • Suggested Curriculum**

Biology, the study of living organisms, is an extremely large and diverse field. Career opportunities exist in many areas such as research, government agencies (conservation department, environmental protection, etc.), industry, sales, and teaching at all educational levels. In addition, the biology curriculum provides the pre-professional foundation for many of the health career areas. Baccalaureate biological science programs are diverse. Some programs emphasize cell and molecular biology, whereas others emphasize organismal, ecological, and evolutionary biology. Research universities offer specific programs of study, optional tracks, or specializations within biology. Students should decide the direction or specialization within biology as early as possible, preferably by the beginning of sophomore year. Students are strongly encouraged to complete the Associate in Science degree prior to transfer.

### I. General Education Core (41)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (9 credits)

BIOL 112 [BIO 910] Organismal Biology (4)  
 CHEM 110 [CHM 911] General Chemistry I (5)

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (19)

Select a minimum of 19 credits from the foundation courses listed below.

BIOL 111 [BIO 910] Cellular and Molecular Biology (4) *required*  
 CHEM 130 [CHM 912] General Chemistry II (5) *required*  
 CHEM 203 [CHM 913] Organic Chemistry I (5)  
 CHEM 204 [CHM 914] Organic Chemistry II (5)

### III. Electives (2-6)

Select one course from CHEM 203, 204, or PHYSI 210, 220 if not already selected from Area II above, or any additional BIOL course. Courses such as microbiology and human anatomy and physiology sometimes will transfer for credit in allied health majors, but most often do not transfer as biology major credit.

### Required A.S. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Business

### A.A. Degree • Suggested Curriculum

Business programs at community colleges and bachelor's degree institutions include courses and majors in general business, accounting, finance, marketing, and management. The following recommendations apply to programs in all of these fields. These are suggested courses which are designed to satisfy requirements in the Associate in Arts Degree at Prairie State College and to provide the basis for transferring to a four-year institution.

#### I. General Education Core (38-40)

##### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

##### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

PHILO 202 [H4 904] Ethics (3) *recommended*

##### Area C: Mathematics (4-5 credits)

Select one math course from:

MATH 157 [M1 900-B] Calculus for Business & Social Science (4)  
 MATH 171 [M1 900-I] Calculus with Analytic Geometry I (5)

##### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

##### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

ECON 201 [S3 901] Macroeconomic Principles (3)  
 ECON 202 [S3 902] Microeconomic Principles (3)

#### II. Area of Concentration/Major Field (14)

BUS 131 [BUS 903] Financial Accounting (4)  
 BUS 132 [BUS 904] Managerial Accounting (3)  
 BUS 240 [BUS 901] Elementary Statistics (4)  
 ITAPP 101 [BUS 902] Introduction to Computers (3)

#### III. Electives (8-10)

BUS 101 Introduction to Modern Business (3)  
 BUS 201 Business Law (3)

or

BUS 210 Business Law and Its Environment (3)

Select any other business course (2-4)

*Special note: Courses such as Principles of Management, Principles of Marketing, Principles of Finance, Intermediate Accounting, and Cost Accounting, etc., are considered junior-level or upper-division courses at most universities. Some universities, though, will accept these courses as elective credit (but it often will not count toward the hours you need for a major in business). Some have provisions for validating this credit. In this case, a student may be requested to take a proficiency examination, take the next course in sequence, or take a specific CLEP subject examination. Students are strongly advised to consult the information for the school of their choice before registering for these courses.*

#### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Chemistry

### A.S. Degree • Suggested Curriculum

The chemist is concerned with the application of scientific principles to practical problems. Employment opportunities for chemists include, among others, theoretical research activities, and problem-solving in management, marketing, and production. Bachelor's programs in chemistry are built on an in-depth foundation of sequential courses in science and math, while upper division courses provide the preparation necessary for graduate studies and/or work in industry.

#### I. General Education Core (39-40)

##### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

##### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

##### Area C: Mathematics (5 credits)

MATH 171 [M1 900-I] Calculus with Analytic Geometry I (5)

##### Area D: Physical and Life Sciences (7-8 credits)

PHYSI 210 [P2 900L] University Physics I (4) *recommended*

Select one life science from the list for Area D. (3-4)

##### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E .

#### II. Area of Concentration/Major Field (22-23)

Select a minimum of 22-23 credits from the foundation courses listed below. Be aware that because of differences among schools in the number of credits for which various courses are offered, and the possible need for prerequisite courses, it may be difficult to complete an Associate in Science degree without taking more credits than will be accepted in transfer.

CHEM 110 [CHM 911] General Chemistry I (5)  
 CHEM 130 [CHM 912] General Chemistry II (5)  
 CHEM 203 [CHM 913] Organic Chemistry I (5)  
 CHEM 204 [CHM 914] Organic Chemistry II (5)

Other recommended courses:

MATH 172 [MTH 902] Calculus with Analytic Geometry II (5)  
 MATH 173 [MTH 903] Calculus with Analytic Geometry III (5)  
 PHYSI 220 University Physics II (4)

#### Required A.S. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## pre-Clinical Laboratory Science

**A.S. Degree • Suggested Curriculum**

Clinical laboratory scientists play an important role in the detection, diagnosis and treatment of many diseases. Baccalaureate programs in the field are called clinical laboratory science or medical laboratory science and prepare students to perform complex analyses and manage all areas of the laboratory as a Level III practitioner.

### I. General Education Core (39-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (3-4 credits)

Select one math course from:

MATH 115 [M1 902] General Education Statistics (3)  
 MATH 153 [M1 902] Probability and Statistics (4)

#### Area D: Physical and Life Sciences (9 credits)

BIOL 112 [LI 900L] Organismal Biology (4)  
 CHEM 110 [PI 902L] General Chemistry I (5)

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (22-23)

BIOL 211 Microbiology (4) *required*  
 CHEM 130 General Chemistry II (5) *required*  
 CHEM 203 Organic Chemistry I (5)  
 CHEM 204 Organic Chemistry II (5)

Select two biology courses from the following:

BIOL 111 Cellular and Molecular Biology (4)  
 BIOL 221 Human Anatomy & Physiology I (4)  
 BIOL 222 Human Anatomy & Physiology II (4)

### Required A.S. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Communication Disorders

**A.A. Degree • Suggested Curriculum**

This program is for students who plan to transfer to Governors State University (GSU) for a Bachelor of Health Science Degree in Communication Disorders. The undergraduate major in Communication Disorders at GSU offers pre-professional education in speech-language pathology, audiology, and related areas. The Associate of Arts Degree at PSC and Bachelor of Health Science Degree at GSU do not qualify students for state teaching and national certification, but rather provide the foundation necessary for the graduate curriculum which leads to certification. Students will begin taking the general education and professional education requirements for Illinois teaching certificates (Type 10 or Type 03/09) endorsed as Speech and Language Impaired, or the School Service Personnel certificate (Type 73), endorsed as Speech-Language Pathologist. *Please note: Each senior institution has its own transfer policies. Consult the school of your choice and/or a PSC advisor.*

### I. General Education Core (38)

#### Area A: Communication (9 Credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select from three courses from the list for Area B with at least one course selected from humanities and one from fine arts.

#### Area C: Mathematics (3 credits)

MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (8 credits)

Select one life science and physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

POLSC 140 Introduction to U.S. Government and Politics (3)  
 PSYCH 101 [S6 900] Introduction to Psychology (3)  
 HIST 201 [S2 900] U.S. History: 1492-1877 (3)  
**or**  
 HIST 202 [S2 901] U.S. History 1877-Present (3)

### II. Area of Concentration/Major Field (9)

ED 100 Foundations of American Public Education (3)  
 ED 101 Child Growth and Development (3)  
 ED 212 Exceptional Child (3)

### III. Electives (15)

ECED 103 Health, Safety and Nutrition (3)

**or**

HLTH 101 Health and Human Development (2)  
 ECED 201 Sign Language I (3) *suggested*  
 ECED 202 Sign Language II (3) *suggested*  
 One Non-Western Culture Course (3)  
 One English literature course (3)

Any additional general education course from the list at the front of this section.

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Computer Science- Information Systems Emphasis

**A.S. Degree • Suggested Curriculum**

The study of computer science and business focuses on the development of problem-solving skills and tools, and the ability to analyze situations and effectively use these tools. Career opportunities exist for business and financial analysts and information systems specialists. Students are strongly encouraged to complete the Associate in Science degree prior to transfer.

### I. General Education Core (38-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (4-5 credits)

Select one math course from:

MATH 155 [M1 906] Finite Mathematics (4)  
MATH 157 [M1 900-B] Calculus for Business and Social Sciences (4)  
MATH 171\* [M1 900-I] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

PHYSI 210 [P2 900L] University Physics I (4) *recommended*  
Life Science Course (3-4)

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E including:

ECON 201 [S3 901] Macroeconomic Principles (3)  
ECON 202 [S3 902] Microeconomic Principles (3)

Select one course other than ECON (3)

### II. Area of Concentration/Major Field (12)

ITAPP 101 Introduction to Computers (3)

MATH 210 [CS 915] Discrete Mathematics (3)

Select one programming language sequence from the following:

ITPRG 142 Introduction to Visual Basic Programming (3)

**and** ITPRG 24 Advanced Visual Basic Programming (3)

**or**

ITPRG 144 Introduction to C++ Programming (3)

**and** ITPRG 244 Advanced C++ Programming (3)

**or**

ITPRG 147 Introduction to JAVA Programming (3)

**and** ITPRG 247 Advanced JAVA Programming (3)

### III. Electives (10-12)

BUS 131 [BUS 903] Financial Accounting (4)

BUS 132 [BUS 904] Managerial Accounting (3)

BUS 240 [BUS 901] Elementary Statistics (4)

Select additional general education courses from the list at the front of this section, or contact the planned transfer institution for additional course recommendations.

### Required A.S. Degree Program Total: 62 credits

\* Students should complete the entire sequence of MATH 171, 172, and 173 in the same school prior to transfer, since topics are covered in different order by different schools.

## Computer Science- Technical Emphasis

**A.S. Degree • Suggested Curriculum**

The Computer Science-Technical Emphasis curriculum focuses on algorithms, theoretical foundations of computer science, and development of software. A strong foundation in mathematics and science is needed for this emphasis. Graduates of this emphasis will be prepared to work for a variety of companies including those that have a software, engineering, scientific or mathematical focus. Baccalaureate schools may have multiple computer degree programs, often located in different departments, which build on the recommendations for the Computer Science-Technical Emphasis. This major is typically found in a department named Computer Science or Mathematics and Computer Science or within a College of Engineering. Some schools may not require all of the courses listed below. Consult the baccalaureate schools you are considering and an advisor to select the appropriate courses for you.

### I. General Education Core (39-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)

ENG 102 [C1 901R] Composition II - with a grade of C or better (3)

COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course selected from humanities and one from fine arts.

#### Area C: Mathematics (3 credits)

MATH 210 [M1 905] Discrete Mathematics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

PHYSI 210 [P2 900L] University Physics I \* (4)

Life Science course (3-4)

#### Area E: Social and Behavioral Sciences (9 credits)

ECON 201 [S3 901] Macroeconomic Principles (3)

ECON 202 [S3 902] Microeconomic Principles (3)

Social & Behavioral Science course, other than ECON (3)

### II. Area of Concentration/Major Field (9)

MATH 171 [M1 900-I] Calculus with Analytic Geometry I\* (5)

MATH 172 [MTH 902] Calculus with Analytic Geometry II\* (5)

MATH 173 [MTH 903] Calculus with Analytic Geometry III\* (5)

PHYSI 220 [EGR 912] University Physics II\* (4)

PHYSI 230 [EGR 914] University Physics III\* (4)

### III. Electives (13-14)

Students should select electives from the general education course list at the front of this section.

### Required A.S. Degree Program Total: 62 credits

\* Students should complete the entire calculus and physics sequences at the same school prior to transfer, since topics are covered in different order by different schools. Second and third courses in each sequence can be used as electives.

## Criminal Justice

**A.A. Degree • Suggested Curriculum**

This curriculum is designed for students pursuing baccalaureate degrees in the fields of corrections, criminal justice, law enforcement and security management. Students are strongly encouraged to complete the Associate in Arts degree prior to transfer.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines.

PSYCH 101 [S6 900] Introduction to Psychology (3) *recommended*  
 SOCIO 101 [S7 900] Introduction to Sociology (3) *recommended*

### II. Area of Concentration/Major Field (12)

CJ 101 [CRJ 901] Introduction to Criminal Justice (3)  
 CJ 102 [CRJ 912] Introduction to Criminology (3)  
 CJ 106 [CRJ 911] Introduction to Corrections (3)  
 CJ 204 [CRJ 914] Juvenile Justice (3)

### III. Electives (12-13)

Select additional general education electives or refer to the program requirements for the university you plan to attend.

CJ 201 Introduction to Criminal Law (3) *recommended*  
 ITAPP 101 Introduction to Computers (3) *recommended*

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## pre-Dentistry

**A.S. Degree • Suggested Curriculum**

This program provides the foundation coursework in biology, chemistry and math for students who plan to apply to dental school. Admission to dental school is very competitive. These courses also help prepare students to take the Dental Admission Test (DAT), which is required as part of the admissions screening program.

### I. General Education Core (41)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (9 credits)

BIOL 112 [L1 900L] Organismal Biology (4)  
 CHEM 110 [PI 902L] General Chemistry I (5)

#### Area E: Social and Behavioral Sciences (9 credits)

PSYCH 101 [S6 900] Introduction to Psychology (3)

Select two additional courses from the list for Area E.

At least one course must be from a discipline other than PSYCH.

### II. Area of Concentration/Major Field (14)

BIOL 111 Cellular and Molecular Biology (4)  
 CHEM 130 General Chemistry II (5)  
 MATH 172 Calculus with Analytic Geometry II (5)  
 PHYSI 120 College Physics I (4)  
 PHYSI 130 College Physics II (4)

### III. Electives (7) Select at least 7 credits from:

BIOL 221 Human Anatomy and Physiology I (4)  
 BIOL 222 Human Anatomy and Physiology II (4)  
 CHEM 203 Organic Chemistry I (5)  
 CHEM 204 Organic Chemistry II (5)

### Required A.S. Degree Program Total: 62 credits

## Education - Early Childhood Education

### A.A. Degree • Suggested Curriculum

This curriculum has been designed to help students select courses which are likely to apply to a major in Early Childhood Education. Students should obtain a copy of the Associate in Arts Degree Worksheet and should visit the IAI Web site at [www.itransfer.org](http://www.itransfer.org) to get specific transfer course equivalencies for participating Illinois colleges and universities.

### State Certification Requirements in Early Childhood Education

To teach young children (birth to age 8) in Illinois public schools, teachers must be certified by the State of Illinois upon completion of their baccalaureate degree program. To transfer into an approved baccalaureate program in Early Childhood Education as a junior, students must complete a minimum of 60 semester credits. Since admission is competitive, completion of the courses recommended below does not guarantee admission. Community college students are strongly encouraged to complete an Associate in Arts degree prior to transfer. A minimum grade point average of 2.5 on a 4.0 scale is usually required for program admission, and passage of a basic skills test (reading, writing, grammar, and math) also is required.

### I. General Education Core (42-43)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course selected from humanities and one course from fine arts, including one English course numbered 200 or above.

#### Area C: Mathematics (8 credits)

MATH 200 Mathematics for Elementary Teaching I (4)  
MATH 206 [M1 903] Mathematics for Elementary Teaching II (4)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

HIST 201 [S2 900] U.S. History: 1492 to 1877 (3)  
**or**  
HIST 202 [S2 901] U.S. History: 1877 to Present (3)  
POLSC 140 [S5 900] Introduction to U.S. Government and Politics (3)  
PSYCH 101 [S6 900] Introduction to Psychology (3)

### II. Area of Concentration/Major Field (9)

Professional Early Childhood Education Courses  
ED 100 Foundations of American Public Education (3)  
ED 101 Child Growth and Development (3)  
ECED 104 Introduction to Early Childhood Education (3)\*  
Select one course from:  
ED 160 Technology for Teachers (3)  
ED 212 Exceptional Child (3)  
PSYCH 202 Educational Psychology (3)

### III. Electives (7-8)

ECED 103 Health, Safety and Nutrition (3)\* *recommended*  
**or**

HLTH 101 Health and Wellness (2)  
EDU 120 Child, Family and Community (3) *recommended*  
Additional Humanities course (3)  
Additional Science course (4)

Select one non-Western or Third World Cultures course: ART 131, GEOG 101, HUMAN 101, HIST 111, 112, 115, 116, or 140 (3)  
Additional general education course from the lists at the front of this section.

*\*Note: Before enrolling in any additional courses with an ECED or EDU prefix at Prairie State College, consult the Transfer Guides in the Counseling & Academic Advising Center to determine the transferability of these courses.*

### Required A.A. Degree Program Total: 62 credits

*Please note: Each senior institution has its own transfer policies. We strongly urge you to consult the school of your choice early in your program and/or the Prairie State College Counseling and Academic Advising Center to discuss the transferability of courses.*

## Education - Associate of Arts in Teaching: Secondary Mathematics

### A.A.T. Degree • Required Curriculum

The A.A.T. in Secondary Mathematics is a two-year transfer degree program designed for students preparing for careers as secondary education mathematics teachers. The program incorporates foundation coursework in teacher education, field based experiences and content coursework in mathematics. Students who successfully complete the program should be able to begin their upper-division coursework upon transfer.

**A minimum cumulative GPA of 2.5 is required for graduation.**

### I. General Education Core (39-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)

ENG 102 [C1 901R] Composition II - with a grade of C or better (3)

COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits) \*\*

Select three courses from the list for Area B with at least one from humanities and one fine arts.

#### Area C: Mathematics (5 credits)

MATH 171\* Calculus with Analytic Geometry I (5)

\*Note: The Calculus sequence (MATH 171, 172, 173) must be completed prior to transfer.

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits) \*\*

Select three courses in at least two disciplines from the list for Area E.

\*\* Note: Select at least one course designated by IAI as non-Western (N) or Diversity (D) from either Social and Behavioral Sciences or Humanities and Fine Arts. Any of these courses will fulfill this requirement: ANTHR 215, 222; ART 131; ENG 215, 243; GEOG 101; HIST 111, 112, 115, 116, 140; HUMAN 101; SOCIO 215, 220

### II. Program Requirements (25-26)

ED 100 Foundations of American Public Education (3)

MATH 172 Calculus with Analytic Geometry II\* (5)

MATH 173 Calculus with Analytic Geometry III\* (5)

MATH 220 Linear Algebra (3)

Choose one professional education course from the following courses (3)

ED 101 Child Growth and Development

**or**

PSYCH 102 Human Growth and Development: Life Span (3)

ED 160 Technology for Teachers (3)

ED 212 Exceptional Child (3)

PSYCH 202 Educational Psychology (3)

Select one mathematics course from the following (3-4)

MATH 153 Probability and Statistics (4)

MATH 216 Differential Equations (3)

Select one additional course (3-4):

Select **either** one mathematics course from

MATH 153 Probability and Statistics (4)

MATH 216 Differential Equations (3)

**or**

one professional education course from

ED 101 Child Growth and Development (3)

**or**

one course from

PSYCH 102 Human Growth and Development: Life Span (3)

ED 212 Exceptional Child (3)

PSYCH 202 Educational Psychology (3)

**Required A.A.T. Degree Program Total:  
64 credit hours**

## Education - Teacher Education

### A.A. Degree • Suggested Curriculum

This curriculum suggests courses likely to apply to a major in Elementary, Secondary, or Special Education meeting the guidelines of the Illinois Articulation Initiative General Education Core. Students should obtain a copy of the Associate in Arts Degree Worksheet and visit the IAI Web site at [www.itransfer.org](http://www.itransfer.org) to get transfer course equivalencies for participating Illinois colleges and universities.

### State Certification Requirements

To teach in Illinois public schools, teachers must be certified by the State of Illinois. To transfer into a baccalaureate program in education as a junior, students must have 60-64 semester credits. Admission to teacher preparation programs is competitive; completion of recommended courses does not guarantee acceptance. Students must pass the Illinois Basic Skills test, which includes reading, writing, grammar, and math, as a requirement for program admission. Students should consult their advisor and an advisor at the university early and often.

### I. General Education Core (42-43)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits) \*\*

ART 131 [F2 903N] Survey of Non-Western Art (3) *recommended*  
 Select any English literature course (ENG 200 level courses) (3)  
 Select any additional course from the list for Area B. (3)

#### Area C: Mathematics (8 credits)

MATH 200 Mathematics for Elementary Teaching I (4)  
 MATH 206 [M1 903] Mathematics for Elementary Teaching II (4)  
*Note: Students should consult advisors to determine the appropriate math course for their area of interest.*

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits) \*\*

HIST 201 [S2 900] U.S. History: 1492 to 1877 (3) **or**  
 HIST 202 [S2 901] U.S. History: 1877 to Present (3)  
 POLSC 140 [S5 900] Introduction to U.S. Government and Politics (3)  
 PSYCH 101 [S6 900] Introduction to Psychology (3)

### II. Area of Concentration/Major Field (19-20)

Select 19 credits from:

ED 100 Foundations of American Public Education (3)  
 ED 101 Child Growth and Development (3)

*Note: Secondary Education majors should select PSYCH 102 in place of ED 101.*

ED 160 Technology for Teachers (3)  
 ED 212 Exceptional Child (3)  
 PSYCH 202 Educational Psychology (3)  
 HLTH 101 Health and Human Development (2)

Additional Humanities course (3)

Additional Science course (4)

Select 3-6 credits in one academic discipline at the 200 level in consultation with an academic advisor.

*Note: Select at least one course designated by IAI as non-Western (N) or Diversity (D) from either Social and Behavioral Sciences or Humanities and Fine Arts: Any of these courses will fulfill this requirement: ANTHR 215, 222; ART 131; ENG 215, 243; GEOG 101; HIST 111, 112, 115, 116, 140; HUMAN 101; PHILO 205; SOCIO 215, 220*

**Required A.A. Degree Program Total: 62 credits**

## Engineering

### A.S. Degree • Suggested Curriculum

The engineer is concerned with the application of scientific principles to practical problems. Employment opportunities for engineers include the complete spectrum of the workforce and theoretical research activities. In the typical four-year curriculum, the first two years concentrate on the basic sciences including mathematics, chemistry and physics. The last two years emphasize advanced mathematics and science courses. Prairie State College offers courses applicable to the first two years of the curriculum and will grant an Associate in Science degree to successful students.

### I. General Education Core (39-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-I] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (7-8 credits)

PHYSI 210 [P2 900L] University Physics I (4)  
 Select one life science course (3-4)

#### Area E: Social and Behavioral Sciences (9 credits)

Select 3 courses in at least two different disciplines from list for Area E.  
 ECON 201 [S3 901] Macroeconomic Principles (3) *recommended*  
 ECON 202 [S3 902] Microeconomic Principles (3) *recommended*  
 Select one Social & Behavioral Science Course, other than ECON (3)

### II. Area of Concentration/Major Field (22-23)

Essential Engineering prerequisite courses:

CHEM 110 General Chemistry I (5)  
 MATH 172 Calculus with Analytic Geometry II (5)  
 MATH 173 Calculus with Analytic Geometry III (5)  
 MATH 216 Differential Equations (3)  
 PHYSI 220 University Physics II (4)

Suggested IAI Engineering Specialty Courses for Chemical Engineering:

CHEM 130 General Chemistry II (5)  
 CHEM 203 Organic Chemistry I (5)  
 CHEM 204 Organic Chemistry II (5)

For Civil, Industrial, and Mechanical Engineering:  
 CADMD 245 Computer Aided Design (3)

**Required A.S. Degree Program Total: 62 credits**

## English/Literature

### A.A. Degree • Suggested Curriculum

Four-year degree programs in English emphasize study of literature and literary criticism. Specializations in creative and/or technical writing prepare a student for certification as a high school English teacher as well as for writing jobs. Students seeking a bachelor's degree in English are encouraged to complete an A.A. or A.S. degree prior to transfer. All literature courses require substantial formal writing, it is recommended students complete the two-course writing sequence before enrolling in literature courses.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (12)

Select up to three courses from the following survey courses:

ENG 211 [H3 914] American Literature I (3)  
 ENG 212 [H3 915] American Literature II (3)  
 ENG 231 [H3 912] British Literature I (3)  
 ENG 232 [H3 913] British Literature II (3)

In addition to the survey courses, select one course from the following genre courses:

ENG 221 Introduction to Poetry (3)  
 ENG 240 Introduction to Fiction (3)  
 ENG 252 Introduction to Drama (3)  
 ENG 256 Film and Literature (3)

### III. Electives (12-13)

Some universities require multicultural dimensions within the major. The following courses will fulfill that requirement:

ENG 215 [H3 910D] African-American Literature (3)  
 ENG 243 Non-Western Literature in Translation (3)

Universities offering a creative writing specialization will accept the following course in the creative writing specialization only:

ENG 110 Creative Writing: Poetry (3)  
 ENG 111 Creative Writing: Nonfiction Prose (3)

Foreign Language\* (4-16)

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## General Math/Science

### A.S. Degree • Suggested Curriculum

This curriculum has been designed for students who plan to transfer into a bachelor of science degree program but are undecided about their specific major. It provides the basic foundation in math, the sciences, and general education required by universities for entry into math/science-related programs.

### I. General Education Core (41)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (9 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

BIOL 112 [L1 900L] Organismal Biology (4) *recommended*  
 CHEM 110 [P1 902L] General Chemistry I (5) *recommended*

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (21)

Select 21 credits from college-level transfer-oriented courses such as: Science and math foundation courses

Suggested science/math foundation courses include:

BIOL 111 Cellular and Molecular Biology (4)  
 CHEM 130 General Chemistry II (5)  
 MATH 172 Calculus with Analytic Geometry II (5)  
 MATH 173 Calculus with Analytic Geometry III (5)  
 PHYSI 210 University Physics I (4)  
 PHYSI 220 University Physics II (4)

### III. Electives

Additional general education core courses from Areas B through E. Entry level courses in baccalaureate majors you wish to explore Foreign language courses\*

### Required A.S. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Geology

### A.S. Degree • Suggested Curriculum

Geologists study the Earth, the processes that shape it, the resources we get from it, and the impact of human action on it. Geologists work in petroleum and mineral exploration, researching and predicting natural disasters, and teaching. An increasing number of geologists focus on environmental work, ensuring adequate water supplies and reducing pollution. In the typical four-year curriculum, the first two years are spent studying basic sciences, including mathematics, chemistry, and physics. The last two years emphasize advanced science courses. Students are strongly encouraged to complete the Associate in Science degree prior to transfer.

### I. General Education Core (39-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course selected from the humanities area and at least one course from the fine arts area.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (7-8 credits)

GEOLO 101 [PI 907L] Physical Geology (4)

Select one life science course (3-4)

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area B.

### II. Area of Concentration/Major Field (22-23)

Select a minimum of 22 hours from the following courses. Check with the school you plan to transfer to before selecting courses in this area.

CHEM 110 General Chemistry I (5)  
 CHEM 130 General Chemistry II (5)  
 MATH 172 Calculus with Analytic Geometry II (5)  
 MATH 173 Calculus with Analytic Geometry III (5)  
 PHYSI 120 College Physics I (4)\*  
 PHYSI 130 College Physics II (4)\*  
 PHYSI 210 University Physics I (4)\*  
 PHYSI 220 University Physics II (4)\*  
 Foreign Language Courses (4-16)

### Required A.S. Degree Program Total: 62 credits

\*Some universities require algebra-based physics (PHYSI 120, 130). Others require calculus-based physics (PHYSI 210, 220)

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Health Administration

### A.A. Degree • Suggested Curriculum

This curriculum is designed for students who plan to transfer into a Bachelor of Health Science program in Health Administration. Health administrators develop and manage health services organizations and programs. Graduates of bachelor's degree programs become unit or department heads in large and complex health care institutions such as hospitals, clinics, nursing homes, insurance companies, ambulatory care facilities, and medical group management teams.

*Please note: Each senior institution has its own transfer policies. We strongly urge you to consult the school of your choice and/or the Prairie State College Counseling and Academic Advising Center to discuss the transferability of courses in relation to the school and major selected*

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (3 credits)

MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science and one physical science course from the list for Area D. One course must have a lab component.

Select one life science course (3-4)

#### Area E: Social and Behavioral Sciences (9 credits)

ECON 201 [S3 901] Macroeconomic Principles (3)

ECON 202 [S3 902] Microeconomic Principles (3)

Select one additional course from an area other than ECON from the list for Area E.

### II. Area of Concentration/Major Field (24-25)

BUS 101 Introduction to Modern Business (3)  
 BUS 131 Financial Accounting (4)  
 BUS 132 Managerial Accounting (3)  
 ITAPP 101 Introduction to Computers (3)

Any additional courses in Business

Any general education course from the lists at the beginning of this section. Other elective courses recommended by the senior institution to which this degree will transfer.

### Required A.S. Degree Program Total: 62 credits

This program represents an Articulation Agreement between Prairie State College and Governors State University. Students transferring to other universities should consult their institution of choice for course recommendations in each area.

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## History

### A.A. Degree • Suggested Curriculum

This transfer program is designed for students pursuing a baccalaureate degree in various areas of history. The history curriculum at Prairie State College provides students with the background in history and general education courses necessary for advanced work at a four-year institution. Students are strongly encouraged to complete the Associate in Arts degree prior to transfer.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and at least one from fine arts.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E. Students seeking certification as high school history teachers should select the following social and behavioral science courses:

GEOG 101 [S4 900N] Cultural Geography (3)  
 POLSC 140 [S5 900] Introduction to U.S. Government and Politics (3)  
 PSYCH 101 [S6 900] Introduction to Psychology (3)

### II. Area of Concentration/Major Field (12)

HIST 201 [S2 900] U.S. History: 1492 to 1877 (3)  
 HIST 202 [S2 901] U.S. History: 1877 to Present (3)

Select one of the following sequences depending on recommendations at the intended transfer school:

HIST 111 [S2 912N] World History: Origins to 1714 (3)  
 and HIST 112 [S2 913N] World History: 1714 to Present (3)

or

HIST 151 [S2 902] History of Western Civilization I (3)  
 and HIST 152 [S2 903] History of Western Civilization II (3)

### III. Electives (12-13)

Additional history courses may transfer either for history major credit or as general education credits, depending upon the transfer school.

Minor Field: Students who have decided on a minor field may complete one or more courses in their minor.

High School Teacher Certification: Students planning to seek high school teacher certification may complete one or more of the following professional education courses:

ED 100 Foundations of American Public Education (3)  
 PSYCH 102 Human Growth & Development: Life-Span (3)  
 PSYCH 202 Educational Psychology (3)  
 HLTH 101 Health and Human Development (2)

Foreign Language: Competency through the fourth semester of a single foreign language is required for the B.A. degree in History in some schools, and for all majors in the College of Arts and Sciences at many schools.

**Required A.A. Degree Program Total: 62 credits**

## Industrial Technology

### A.S. Degree • Suggested Curriculum

Industrial Technology is a combination of a technical (math/science) education with hands-on skills. It is a field of study that specializes in the application of manufacturing concepts, principles and processes to plan, design, and manage machines and people. Employment in manufacturing industries in Illinois accounts for nearly 17 percent of Illinois' non-farm employment. Three subcategories of durable goods manufacturers—primary metals, fabricated metals, and industrial machinery—together employ more than 300,000 Illinoisans. Programs of study as described in this recommendation include machining standards that comply with those outlined by the National Institute for Manufacturing Skills and the Illinois Occupational Skills Standards Machining Skills Cluster.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

CHEM 105 Survey of General Chemistry (4)

or

PHYSI 101 Conceptual Physics (4)

Select one life science course from the list for Area D.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses from at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (24-25)

CADMD 243 [IND 911] Introduction to AutoCAD (3)

Consult an advisor when selecting from the following courses:

CADMD 203 Statics and Strengths of Materials (4)  
 CADMD 244 Intermediate AutoCAD (3)  
 CET 101 Fundamentals of Electricity (2)  
 CET 114 Digital Fundamentals (4)  
 DRAFT 115 Blueprint Reading for Mechanical Trades (2)  
 HYDR 101 Fundamentals of Hydraulics (2)  
 HYDR 106 Pneumatics (2)  
 MT 120 Industrial Safety (2)  
 MT 210 CNC Programming I (3)  
 MT 211 CNC Programming II (3)  
 MT 214 CAD/CAM Systems (3)  
 MT 215 Manufacturing Systems (4)  
 WELD 101 Principles of Flat Welding (2)

**Required A.S. Degree Program Total: 62 credits**

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## pre-Law

### A.A. Degree • Suggested Curriculum

This transfer program is designed to provide students with the background necessary for advanced work at a four-year institution. A baccalaureate degree from an accredited college and a satisfactory score on the Law School Admission Test (LSAT) are required for admission to most law schools. Most law schools have no specific requirements with regard to the courses chosen in pre-legal study. Common majors among pre-law students include business, history, political science, psychology, sociology, and English. These subject areas help develop skills in close reading, critical thinking, and logical argument. Proficiency in these skills is considered essential for a career in law. Students are strongly encouraged to complete an Associate in Arts degree prior to transfer.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (12)

Select four courses from the baccalaureate major you plan to pursue.

### III. Electives (12)

Select any additional courses from the general education core courses listed at the front of this section.

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Liberal Arts

### A.A. Degree • Suggested Curriculum

This curriculum is designed for students who plan to transfer into a bachelor of arts degree program but are undecided about their specific major. It provides the basic foundation in the humanities, fine arts, social and behavioral sciences, mathematics, communication, and physical and life sciences that is required by universities for entry into arts-and sciences-related programs.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (12-16)

Select four courses from college-level transfer-oriented courses such as additional general education core courses from Areas B through E at the front this section, or beginning-level courses in baccalaureate majors you wish to explore, or foreign language courses. Liberal Arts Elective or Entry-Level Major Course or Foreign Language (12-16)

### III. Electives (8-13)

Select any additional courses from general education core courses listed in Areas B through E.

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Mass Communication: Advertising/ Public Relations

### A.A. Degree • Suggested Curriculum

It is recommended that students complete the entire mass communication core at one institution. Mass Communication students who wish to concentrate in Advertising/Public Relations should complete a minimum of nine credit hours in the major in addition to the General Education Core Curriculum. Remaining credits needed to complete an associate's degree should be chosen with the assistance of an academic advisor. Some schools have specific requirements for admission to the major (e.g., minimum GPA, portfolio review, or other forms of assessment). Check with an advisor.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts

#### Area C: Mathematics (3 credits) recommended

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (9)

COMM 111 [MC 911] Introduction to Mass Communication (3)  
 BUS 261 [MC912] Advertising (3)  
 JRNL 101 [MC 919] Introduction to Journalism (3)

### III. Electives (15-16)

The following courses are recommended for students in the advertising/public relations concentration:

COMM 102 Persuasive Public Speaking (3)  
 COMM 103 Group Discussion (3)  
 COMM 115 [MC 914] Introduction to Broadcasting (3)

Students should select additional electives from the list at the front of this section.

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Mass Communication: Multimedia

### A.A. Degree • Suggested Curriculum

It is recommended that students complete the entire sequence at one institution. Mass Communication students who wish to concentrate in Multimedia should complete a minimum of nine credit hours in the major in addition to the General Education Core Curriculum. Remaining credits needed to complete an associate's degree should be chosen with the assistance of an academic advisor. Some schools have specific requirements for admission to the major (e.g., minimum GPA, portfolio review, or other forms of assessment). Check with an advisor.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts

#### Area C: Mathematics (3 credits) recommended

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (9)

COMM 111 [MC 911] Introduction to Mass Communication (3)  
 Select two of the following courses:  
 GC 162 Introduction to Web Site Development (3)  
                   *same as ITWEB 103*  
 GC 175 Animation (3)  
 ITWEB 105 Multimedia Writing (3)

### III. Electives (15-16)

The following courses are recommended for students in the multimedia concentration:

GC 115 Introduction to Computer Art (3) *same as ART 115*  
 ITWEB 203 Flash/Interface Design (3) *same as GC 262*

Students should select additional electives from the list at the front of this section.

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Mass Communication: Radio/TV/ Film

### A.A. Degree • Suggested Curriculum

It is recommended that students complete the entire mass communication core at one institution. Mass Communication students who wish to concentrate in Radio/TV/Film should complete a minimum of nine credit hours in the major in addition to the General Education Core Curriculum. Remaining credits needed to complete an associate's degree should be chosen with the assistance of an academic advisor. Some schools have specific requirements for admission to the major (e.g., minimum GPA, portfolio review, or other forms of assessment). Check with an advisor.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts

#### Area C: Mathematics (3 credits) recommended

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (9)

COMM 111 [MC 911] Introduction to Mass Communication (3)  
COMM 115 [MC 914] Introduction to Broadcasting (3)  
ENG 256 Film and Literature (3)

### III. Electives (15-16)

The following courses are recommended for students in the radio/TV/film concentration:

COMM 102 Persuasive Public Speaking (3)  
COMM 103 Group Discussion (3)  
GC 115 Introduction to Computer Art (3) same as ART 115  
GC 182 Digital Video (2)

Students should select additional electives from the list at the front of this section.

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Mathematics

### A.S. Degree • Suggested Curriculum

It is recommended that students complete the entire sequence at one institution. Bachelor's degree programs in mathematics prepare students with diverse career goals by developing rigorous, logical thinking; an appreciation and familiarity with complex structures and algorithms; and the ability to learn technical material and abstract concepts. Students are strongly encouraged to complete an Associate in Arts or Associate in Science degree prior to transfer into a baccalaureate Mathematics program. Since admission is competitive, completing the courses recommended below does not by itself guarantee admission.

### I. General Education Core (39-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (7-8 credits)

PHYSI 210 [P2 900L] University Physics I (4)

Select one life science course from the list for Area D.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (16)

MATH 172 [MTH 902] Calculus with Analytic Geometry II (5)\*  
MATH 173 [MTH 903] Calculus with Analytic Geometry III (5)\*  
MATH 201 Engineering Computer Programming (3)  
MATH 216 [MTH 912] Differential Equations (3)  
or  
MATH 220 Linear Algebra (3)

### III. Electives (6-7)

Select additional general education electives from the list at the front of this section or refer to the recommended curriculum for Computer Science or Secondary Education for additional course choices.

### Required A.S. Degree Program Total: 62 credits

*Note: Students who intend to teach mathematics at the secondary level should pursue the A.A.T. degree in Secondary Mathematics.*

*\* It is recommended that students complete the entire calculus sequence at a single institution.*

## pre-Medicine

**A.S. Degree • Suggested Curriculum**

This program provides the foundation course work in biology, chemistry, and mathematics for students who plan to apply to medical school. Admission to medical school is highly competitive, and it is important for students to maintain a high overall grade point average, as well as to excel in laboratory science courses. This course work also helps to prepare the student to take the Medical College Admissions Test (MCAT), which is required as part of the admissions screening program.

### I. General Education Core (41)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Speech Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-I] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (9 credits)

BIOL 112 [L1 900L] Organismal Biology (4)  
 CHEM 110 [P1 902L] General Chemistry I (5)

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

PSYCH 101 [S6 900] Introduction to Psychology (3) *recommended*

### II. Area of Concentration/Major Field (21)

BIOL 111 Cellular and Molecular Biology (4)  
 BIOL 221 Human Anatomy & Physiology I (4)  
 BIOL 222 Human Anatomy & Physiology II (4)  
 CHEM 130 General Chemistry II (5)  
 CHEM 203 Organic Chemistry I (5)  
 CHEM 204 Organic Chemistry II (5)  
 MATH 172 Calculus with Analytic Geometry II (5)

### Required A.S. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Music Education

**A.A. Degree • Suggested Curriculum**

This curriculum has been designed for students who plan to transfer into a Bachelor of Arts degree program with a major in music education. A broad background in music theory, literature, keyboarding skills, aural skills, ensemble performance, and applied music instruction is offered at the community college level to provide a foundation for advanced study in music at a senior institution. Transfer admission in music education is competitive. Students may need to demonstrate their skill level through auditions and/or placement testing at the senior institution. To teach music in the Illinois public schools, teachers must be certified by the State of Illinois. All senior institutions require passage of basic skills tests in reading, writing, grammar, and math.

### I. General Education Core (38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts, including one English course numbered 200 or above.

ART 131 [F2 903N] Survey of Non-Western Art (3) *recommended*

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E. The following courses are recommended to fulfill teacher certification requirement:

HIST 201 [S2 900] U.S. History: 1492 to 1877 (3)

**or**

HIST 202 [S2 901] U.S. History: 1877 to Present (3)

POLSC 140 [S5 900] Introduction to U.S. Government and Politics (3)

PSYCH 101 [S6 900] Introduction to Psychology (3)

**Continued**

## Music Education

**A.A. Degree • Suggested Curriculum**  
Continued from previous page

### II. Area of Concentration/Major Field (min. of 24)

Take one musicianship course each term for a total of 16 credits.

MUSIC 101	Musicianship I (4)
MUSIC 102	Musicianship II (4)
MUSIC 201	Musicianship III (4)
MUSIC 202	Musicianship IV (4)

Select from Ensemble Groups I-IV: Take one each term for total of 4 credits.

MUSIC 110	Community Chorus (1)
MUSIC 120	Wind Ensemble (1)
MUSIC 152	Jazz Ensemble I (1)
MUSIC 153	Jazz Ensemble II (1)
MUSIC 162	Vocal Jazz Ensemble I (1)
MUSIC 163	Vocal Jazz Ensemble II (1)

Select from Applied Music Instruction I-IV (Private Music Lessons):

Take one each term for a total of 8 credits.

MUSIC 191	Private Applied Music I (2)
MUSIC 192	Private Applied Music II (2)
MUSIC 291	Private Applied Music III (2)
MUSIC 292	Private Applied Music IV (2)

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Music Performance

**A.A. Degree • Suggested Curriculum**

This curriculum is designed for students who plan to transfer into a Bachelor of Arts degree program with a major in music performance. A broad background in music theory, literature, keyboarding skills, aural skills, ensemble performance, and applied music instruction is offered at the community college level to provide a foundation for advanced study in music at a senior institution. Transfer admission in music is competitive, and most senior colleges require auditions and placement testing as part of the transfer admissions process.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101	[C1 900] Composition I - with a grade of C or better (3)
ENG 102	[C1 901R] Composition II - with a grade of C or better (3)
COMM 101	[C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts, including one English course numbered 200 or above.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112	[M1 904] General Education Mathematics (3)
MATH 115	[M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area B. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (min. of 24-25)

Take one musicianship course each term for a total of 16 credits.

MUSIC 101	Musicianship I (4)
MUSIC 102	Musicianship II (4)
MUSIC 201	Musicianship III (4)
MUSIC 202	Musicianship IV (4)

Select from Ensemble Groups I-IV: Take one each term for a total of 4 credits.

MUSIC 110	Community Chorus (1)
MUSIC 120	Wind Ensemble (1)
MUSIC 152	Jazz Ensemble I (1)
MUSIC 153	Jazz Ensemble II (1)
MUSIC 162	Vocal Jazz Ensemble I (1)
MUSIC 163	Vocal Jazz Ensemble II (1)

Select from Applied Music Instruction I-IV (Private Music Lessons):

Take one each term for a total of 8 credits.

MUSIC 191	Private Applied Music I (2)
MUSIC 192	Private Applied Music II (2)
MUSIC 291	Private Applied Music III (2)
MUSIC 292	Private Applied Music IV (2)

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## pre-Nursing

**A.S. Degree** • *Suggested Curriculum*

A registered nurse (RN) supervises, teaches and delegates nursing care to health team members and delivers direct care and treatment. The RN also prepares patients for surgery, administers intravenous therapy, establishes patient care plans, assesses and evaluates patient needs, and supervises nursing care. Students who earn a bachelor's degree in nursing are also licensed RN's by the Illinois Department of Financial and Professional Regulation. For optimum transfer, students should take courses in chemistry, math, and humanities.

### I. General Education Core (39)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (3 credits)

MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (9 credits)

BIOL 112 [L1 900L] Organismal Biology (4)  
 CHEM 110 [NUR 906] General Chemistry I (5)

#### Area E: Social and Behavioral Sciences (9 credits)

PSYCH 101 [S6 902] Introduction to Psychology (3)  
 PSYCH 102 [S6 900] Human Growth & Development: Life-Span (3)

One course other than PSYCH from the list for Area E.

### II. Area of Concentration/Major Field (23)

BIOL 111 Cellular & Molecular Biology (4)  
 BIOL 211 Microbiology (4)  
 BIOL 221 Human Anatomy & Physiology I (4)  
 BIOL 222 Human Anatomy & Physiology II (4)  
 CHEM 130 General Chemistry II (4)  
 CHEM 203 Organic Chemistry I (5)

**Required A.S. Degree Program Total: 62 credits**

## pre-Occupational Therapy

**A.S. Degree** • *Suggested Curriculum*

This curriculum is designed to help students select courses which are likely to apply to a major in Occupational Therapy. The courses listed are suggested courses which are designed to satisfy requirements in the Associate in Science degree program at Prairie State College and to provide the basis for transferring to a four-year institution.

Occupational therapists are concerned with people's ability to perform their work, self-care, and play in a competent, self-satisfying manner. When disease, trauma, or stress interferes with performance, the occupational therapist uses various methods of mutual problem-solving, environmental modification, and adaptive devices to support and enhance performance. This program provides the foundation course work necessary for admission to an occupational therapy program. Occupational therapy programs are masters degree level programs which require two years of prerequisite course work followed by four years in an approved occupational therapy program. Admission to occupational therapy programs is very competitive.

### I. General Education Core (39-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (3-4 credits)

Select one math course from:

MATH 115 [M1 902] General Education Statistics (3)  
 MATH 153 [M1 902] Probability and Statistics (4)

#### Area D: Physical and Life Sciences (9 credits)

BIOL 112 [L1 900L] Organismal Biology (4)  
 CHEM 110 [PI 902L] General Chemistry I (5)

#### Area E: Social and Behavioral Sciences (9 credits)

PSYCH 101 [S6 900] Introduction to Psychology (3) *recommended*  
 SOCIO 101 [S7 900] Introduction to Sociology (3) *recommended*  
 One additional course from the list for Area E.

### II. Area of Concentration/Major Field (22-23)

BIOL 221 Human Anatomy & Physiology I (4)  
 BIOL 222 Human Anatomy & Physiology II (4)  
 ED 101 Child Growth and Development (3)

or

PSYCH 102 Human Growth and Development: Life-Span (3)  
 PSYCH 203 Abnormal Psychology (3)

Other courses recommended by the senior institution (8-9)

**Required A.S. Degree Program Total: 62 credits**

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

*Please note: Each senior institution has its own transfer policies. Consult the school of your choice and/or the Prairie State College Counseling & Academic Advising Center to discuss the transferability of courses in relation to the school you have selected.*

## pre-Pharmacy

**A.S. Degree • Suggested Curriculum**

This curriculum is designed to help students select courses which are likely to apply to a pre-Pharmacy program. The courses listed are suggested courses which are designed to satisfy requirements in the Associate in Science degree program at Prairie State College and to provide the basis for transferring to a four-year institution.

The practice of clinical pharmacy promotes optimal, safe and appropriate drug use by patients. The clinical pharmacist is trained in all aspects of drug therapy management and patient drug education. The pre-Pharmacy program provides students with the foundation course work necessary to meet the prerequisites for admission to a school of pharmacy. Pharmacy schools require applicants to complete two years of pre-pharmacy course work. The colleges of Pharmacy then offer the final four years of a six-year program leading to the Doctor of Pharmacy degree (PharmD). Admission to these programs is very competitive.

### I. General Education Core (41)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry (5)

#### Area D: Physical and Life Sciences (9 credits)

BIOL 112 [L1 902L] Organismal Biology (4)  
 CHEM 110 [P1 902L] General Chemistry I (5)

#### Area E: Social and Behavioral Sciences (9 credits)

ECON 201 [S3 901] Macroeconomic Principles (3) *recommended*  
 ECON 202 [S3 902] Microeconomic Principles (3) *recommended*

Select one course from a discipline other than ECON from the list for Area B.

### II. Area of Concentration/Major Field (min. of 21)

Select from:

BIOL 111 Cellular & Molecular Biology (4)  
 BIOL 221 Human Anatomy & Physiology I (4)  
 BIOL 222 Human Anatomy & Physiology II (4)  
 CHEM 130 General Chemistry II (5)  
 CHEM 203 Organic Chemistry I (5)  
 CHEM 204 Organic Chemistry II (5)  
 PHYSI 120 College Physics I (4)  
 PHYSI 130 College Physics II (4)

### Required A.S. Degree Program Total: 62 credits

*Please note: Each senior institution has its own transfer policies. We strongly urge you to consult the school of your choice and/or the Prairie State College Counseling and Academic Advising Center to discuss the transferability of courses in relation to the school you have selected.*

## Photography

**A.A. Degree • Suggested Curriculum**

This curriculum is designed for students who plan to pursue a baccalaureate program in fine arts photography, photojournalism or professional photography. The program provides basic courses for building technical competency as well as the general education foundation needed to enhance creativity and appreciation for aesthetics. Students are encouraged to begin development of a substantial portfolio. Students should complete the Associate in Arts degree prior to transfer. Admission to baccalaureate programs is highly competitive.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

ART 126 [F2 904] History of Photography (3)  
 ART 121 History of Western Art I (3)

or

ART 122 History of Western Art II (3) *recommended*

Select one humanities course from the list for Area B.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (12)

ART 101 Two Dimensional Design (3)  
 ART 102 Three Dimensional Design (3)  
 PHOTO 171 Introduction to Black & White Photography (3)  
 PHOTO 291 Survey of Contemporary Photography (3)

### III. Electives (12-13)

Select any additional electives in photography or general education in consultation with an advisor. Some recommended courses include:

PHOTO 170 Digital Camera Skills (1)  
 PHOTO 174 Digital Darkroom Techniques (2)  
 PHOTO 175 Basic Lighting Skills (2)  
 PHOTO 180 Photoshop I (2)  
 PHOTO 275 Photographic Design (3)  
 PHOTO 285 Digital Color Production (3)  
 PHOTO 286 Independent Photo Project (3)  
 PHOTO 297 Professional Portfolio (3)

Any additional general education course from the list at the front of this section.

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Physical Education

### A.A. Degree • Suggested Curriculum

The course of study identifies courses which are likely to apply to a major in Physical Education (with specializations in P.E. Teacher Education, Athletic Coaching, Athletic Training, Exercise Science, Kinesiology, Personal Trainer, etc.). Students should consult the school to which they plan to transfer to discuss the variety of their program and course offerings and to determine which courses to take at the freshman/sophomore level at Prairie State College. Many of these programs have a competitive admissions process and require a specific minimum GPA for admission. Kinesiology and exercise science programs usually require a strong foundation in mathematics (such as statistics) and sciences (such as anatomy and physiology and physics).

### I. General Education Core (37-38)

#### Area A: Communications (9 credits)

- ENG 101 [C1 900]\* Composition - with a grade of C or better (3)  
ENG 102 [C1 901R]\* Composition II - with a grade of C or better (3)  
COMM 101 [C2 900] Principles of Communication  
- with a grade of C or better (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from Area B with at least one course from humanities and one from fine arts.

Humanities: ENG course recommended for Illinois teacher certification

Fine Arts: ART 131 recommended for Illinois teacher certification

#### Area C: Mathematics (3 credits)

- MATH 112 [M1 904] General Education Mathematics (3)

or

- MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

- BIOL 112 [LI 900L] Organismal Biology (4) *recommended*

Physical Science Course (3-4)\*

\*Four credit lab science courses recommended for Illinois teacher certification

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

- PSYCH 101 [S6 900] Introduction to Psychology (3) *recommended*

- PSYCH 102 [S6 902] Human Growth and Development: Lifespan (3) *recommended*

Any additional course other than PSYCH from the list for Area E.

POLSC 140 or HIST 201 or 202 recommended for Illinois teacher certification.

### II. Area of Concentration/Major Field (24-25)

Select a minimum of 24 credit from the following:

- BIOL 111 Cellular and Molecular Biology (4)  
BIOL 221 Human Anatomy & Physiology I (4)  
BIOL 222 Human Anatomy & Physiology II (4)  
ED 100 Foundations of American Public Education (3)  
HLTH 101 Health and Wellness (2)  
PES 200 Officiating Sports (3)  
PES 201 Introduction to Physical Education (2)

Select up to 4 credits from the following physical education activity courses :

- PE 101, 102, 103, 104, 105, 106, 107, 108, 151, 161, 162, 163, 164, 165 (1)

- SPAN 101, 102, 201, 202 (3)\*

Additional academic or PE courses as recommended by the school to which you plan to transfer.

Any additional general education course from the list at the front of this section.

### Required A.A. Degree Program Total: 62 credits

*\*Foreign Language Requirement: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school, or four semesters in college, will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Physical Science

**A.S. Degree** • *Suggested Curriculum*

This program provides the foundation work for students planning to transfer to upper-division physical science programs or to teach physical science at the high school level. Students are strongly encouraged to complete the Associate in Science Degree prior to transfer.

### I. General Education Core (39-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (7-8 credits)

PHYS 111 Physical Science (4)

One life science course from the list for Area D. (3-4)

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (12)

Select courses from Astronomy, Geology, Meteorology, or Physical Science:

ASTRO 101 Guide to the Universe (3)  
 ASTRO 104 The Solar System and Beyond (4)  
 GEOG 105 Introduction to Physical Geography (3)  
 GEOLO 101 Physical Geology (4)  
 METEO 150 Introduction to Meteorology (3)  
 PHYS 112 Earth Science (4)

### III. Electives (10-11)

Select any additional courses from the general education core courses listed above. Students planning to teach at the high school level should also refer to the recommended curriculum for Secondary Education for additional course choices.

### Required A.S. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## pre-Physical Therapy

**A.S. Degree** • *Suggested Curriculum*

Physical therapy is the promotion of optimum human health and function through the application of scientific principles to prevent, identify, correct or alleviate dysfunctions originating in anatomy. This program provides the student with a sound background in the basic sciences and mathematics necessary for admission to a physical therapy program. Admission to these programs is very competitive! Physical therapy programs look for students with high grade point averages, especially in the science and math courses. In addition, documented clinical experience is a prerequisite for admission to most programs.

### I. General Education Core (41)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (9 credits)

BIOL 112 [L1 902L] Organismal Biology (4)  
 CHEM 110 [P1 902L] General Chemistry I (5)

#### Area E: Social and Behavioral Sciences (9 credits)

PSYCH 101 [S6 900] Introduction to Psychology (3)

Select two remaining courses from the list for Area E.

One course must be in a discipline other than PSYCH.

### II. Area of Concentration/Major Field (21)

BIOL 111 Cellular & Molecular Biology (4)  
 CHEM 130 General Chemistry II (5)  
 MATH 153 Probability and Statistics (4)  
 PHYSI 120 College Physics I (4)  
 PHYSI 130 College Physics II (4)

### III. Electives (0)

Although no elective hours are required for this degree, two semesters of Anatomy and Physiology are highly recommended for students who wish to gain admission to a physical therapy program.

BIOL 221 Human Anatomy & Physiology I (4)  
 BIOL 222 Human Anatomy & Physiology II (4)

### Required A.S. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Physics

### A.S. Degree • Suggested Curriculum

The physicist is concerned with theoretical scientific principles. Employment opportunities for engineers and physicists include theoretical research activities plus many other options. In the typical four-year curriculum, the first two years concentrate on the basic sciences including mathematics, chemistry, and physics. The last two years emphasize advanced mathematics and science courses. Prairie State College offers courses applicable to the first two years of the curriculum, and will grant an Associate in Science degree to successful students.

### I. General Education Core (40-41)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (5 credits)

MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (8-9 credits)

CHEM 110 [P1 902L] General Chemistry I (5)  
 One life science course from the list for Area D (3-4).

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (21-22)

Physics core courses:

PHYSI 210 [PHY 911] University Physics I (4)  
 PHYSI 220 [PHY 912] University Physics II (4)  
 PHYSI 230 University Physics III (4)

Support courses:

CHEM 130 General Chemistry II (5)  
 MATH 172 Calculus with Analytic Geometry II (5)  
 MATH 173 Calculus with Analytic Geometry III (5)  
 MATH 201 Engineering Computer Programming (3)  
 MATH 216 Differential Equations (3)

**Required A.S. Degree Program Total: 62 credits**

## Political Science

### A.A. Degree • Suggested Curriculum

This curriculum is designed for students pursuing a baccalaureate degree in Political Science. The transfer program provides students with a broad background to examine all aspects of public life, and prepares them to be alert and well-informed participants in a wide variety of local, state, national, and international issues. Students are strongly encouraged to complete the Associate in Arts degree prior to transfer.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area B. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (9)

POLSC 140 [S5 900] Introduction to U.S. Government and Politics (3)  
 POLSC 230 [S5 905] Introduction to Comparative Government (3)  
 POLSC 240 [S5 904] Introduction to International Relations (3)

### III. Electives (15-16)

POLSC 152 U.S., State and Local Government (3)  
 Select additional courses as recommended by the senior institution you plan to attend. Typical elective courses include, but are not limited to, economics, foreign language, geography, history, etc.

**Required A.A. Degree Program Total: 62 credits**

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Psychology

**A.A. Degree • Suggested Curriculum**

The Psychology transfer program provides a broad general education background and prepares students for the specialized coursework undertaken during the last two years of a baccalaureate program. Students who plan to major in psychology are encouraged to complete foundation coursework in sciences and mathematics in addition to completing a core of basic psychology courses. It is recommended that students complete the Associate in Arts degree prior to transfer.

### I. General Education Core (37-40)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course selected from the humanities area and one course from the fine arts area.

#### Area C: Mathematics (3-5 credits)

Select one math course from:

MATH 115 [M1 902] General Education Statistics (3)  
 MATH 153 [M1 902] Probability & Statistics (4)  
 MATH 155 [M1 906] Finite Mathematics (4)  
 MATH 171 [M1 900-1] Calculus with Analytic Geometry I (5)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

PSYCH 101 [S6 900] Introduction to Psychology (3)

Select two additional courses from the list for Area E.

At least one course must be from a discipline other than psychology.

### II. Area of Concentration/Major Field (9)

Psychology core course:

PSYCH 102 [S6 902] Human Growth & Development: Life-Span (3)

Select two of the following courses:

PSYCH 203 [PSY 905] Abnormal Psychology (3)  
 PSYCH 204 [PSY 906] Industrial/Organizational Psychology (3)  
 PSYCH 212 [PSY 907] Theories of Personality (3)  
 PSYCH 215 [S8 900] Social Psychology (3)

### III. Electives (13-16)

Select any additional courses as recommended by the senior institution you plan to attend. Students who plan to major in psychology are encouraged to complete additional foundation courses in sciences (e.g. biology, chemistry, physics, anatomy, and physiology) and mathematics (e.g. college algebra, calculus, and statistics). The number of psychology courses taken at the freshman/sophomore level should generally not exceed 12 credits and should be limited to the courses recommended above. Other recommended electives include foreign language, social science, and sociology.

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Social Work

**A.A. Degree • Suggested Curriculum**

The profession of social work is devoted to helping people function optimally in their environment by providing direct and indirect services to individuals, families, groups, and communities and by working to improve social conditions. Bachelor's degree programs in social work prepare students for careers in public and private agencies such as child welfare, mental health, corrections, shelters, and many other workplaces. Community college students interested in completing bachelor's degrees in social work are strongly encouraged to complete an Associate in Arts degree prior to transfer. Students should see their advisors about particular social work baccalaureate programs for specific entry requirements since admission to these programs is competitive and completion of courses does not guarantee admission to a program at a senior institution.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

PHILO 201 [H4 900] Introduction to Philosophy (3) *recommended*  
 PHILO 202 [H4 904] Ethics (3) *recommended*

Select an additional course in fine arts or interdisciplinary humanities/fine arts from the list for Area B.

#### Area C: Mathematics (3 credits)

MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select 3 courses in at least two different disciplines from the list for Area E.

*The following are recommended:*

ANTHR 222 [S1 901N] Introduction to Cultural & Social Anthropology (3)  
 PSYCH 101 [S6 900] Introduction to Psychology (3)  
 SOCIO 101 [S7 900] Introduction to Sociology (3)

### II. Area of Concentration/Major Field (15)

*Recommended Social Work Core Courses:*

PSYCH 102 Human Growth and Development: Life-Span (3)  
 PSYCH 203 Abnormal Psychology (3)  
 PSYCH 215 Social Psychology (3)  
 SOCIO 111 Contemporary Social Issues (3)  
 SOCIO 201 Introduction to Social Work (3)

### III. Electives (10-11)

Select additional courses as recommended by the senior institutions you plan to attend. Typical elective courses include:

ECON 201 Macroeconomic Principles (3)  
 PHILO 203 Introduction to Logic (3)  
 POLSC 140 Introduction to U.S. Governments and Politics (3)  
 PSYCH 217 Human Sexuality (3)  
 SOCIO 220 Race Relations: A Multicultural Perspective (3)  
 Foreign Language (4-16)

Other elective courses recommended by the senior institution of your choice.

### Required A.A. Degree Program Total: 62 credits

## Sociology

### A.A. Degree • Suggested Curriculum

This curriculum is designed for students who plan to pursue a bachelor's degree in such fields as behavioral science, and sociology. The Sociology transfer program provides students with a broad, general education background and prepares them for the specialized coursework undertaken during the last two years of a baccalaureate program and for eventual graduate level study in social work. Students are strongly encouraged to complete the Associate in Arts degree prior to transfer.

### I. General Education Core (37-39)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one from fine arts.

#### Area C: Mathematics (3-4 credits)

Select one math course from:

MATH 115 [M1 902] General Education Statistics (3)  
 MATH 153 [M1 902] Probability & Statistics (4)  
 MATH 155 [M1 906] Finite Mathematics (4)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

ANTHR 215 [SI 900N] Introduction to Anthropology (3)

or

ANTHR 222 [SI 901N] Introduction to Cultural and Social Anthropology (3)

Select one additional course in a discipline other than ANTHR from the list for Area E.

### II. Area of Concentration/Major Field (12)

SOCIO 101 [S7 900] Introduction to Sociology (3)  
 SOCIO 111 [S7 901] Contemporary Social Issues (3)  
 SOCIO 210 [S7 902] Marriage and the Family (3)  
 SOCIO 215 [S7 904D] Sex, Gender, and Power (3)  
 SOCIO 220 [S7 903D] Race Relations: A Multicultural Perspective (3)

### III. Electives (11-13)

Select any additional courses from the general education core courses, foreign language, or courses which are non-Western or multicultural in content. Students planning to teach at the high school level should refer to the Recommended Curriculum for Secondary Education for additional elective choices.

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Speech Communication

### A.A. Degree • Suggested Curriculum

This program provides the foundation for students planning to transfer to speech communication programs and specializing in such areas as interpersonal, organization, or persuasive communication; speech performance; or high school teaching. It is recommended that students complete a well-rounded general education core curriculum. Students are strongly encouraged to complete the Associate in Arts degree prior to transfer.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts.

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (9)

Recommended Speech Communication Courses

COMM 102 Persuasive Public Speaking (3)  
 COMM 103 Group Discussion (3)  
 COMM 108 Interpersonal Communication (3)

### III. Electives (15-16)

Select additional courses as recommended by the senior institution you plan to attend. Typical elective courses include, but are not limited to:

COMM 111 Introduction to Mass Communication (3)  
 COMM 196 Applied Forensics I (1)  
 COMM 197 Applied Forensics II (1)  
 COMM 198 Applied Forensics III (1)  
 COMM 199 Applied Forensics IV (1)

Foreign Language courses (4-16)

Other elective courses

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*

## Theatre Arts

### A.A. Degree • Suggested Curriculum

Students planning to pursue a baccalaureate degree are encouraged to complete an Associate in Arts degree prior to transfer. Transfer admission to theatre arts-related programs is competitive and some schools require an audition for admission to the program. Because each senior institution has its own transfer policies, we cannot guarantee the accuracy of this information for every school. Consult the school of your choice and/or the Prairie State College Counseling and Academic Advising Center to discuss the transferability of courses.

### I. General Education Core (37-38)

#### Area A: Communication (9 credits)

ENG 101 [C1 900] Composition I - with a grade of C or better (3)  
 ENG 102 [C1 901R] Composition II - with a grade of C or better (3)  
 COMM 101 [C2 900] Principles of Communication (3)

#### Area B: Humanities and Fine Arts (9 credits)

Select three courses from the list for Area B with at least one course from humanities and one course from fine arts (other than THTRE).

#### Area C: Mathematics (3 credits)

Select one math course from:

MATH 112 [M1 904] General Education Mathematics (3)  
 MATH 115 [M1 902] General Education Statistics (3)

#### Area D: Physical and Life Sciences (7-8 credits)

Select one life science course and one physical science course from the list for Area D. One course must have a lab component.

#### Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines from the list for Area E.

### II. Area of Concentration/Major Field (3)

THTRE 111 [TA 914] Fundamentals of Acting (3)

### III. Electives (18-19)

Select additional courses as recommended by the senior institution you plan to attend. Typical elective courses include but are not limited to:

ENG 271 [H3 905] Introduction to Shakespeare (3)  
 HUMAN 202 [HF 900] Form and Structure in the Arts (3)  
 THTRE 101 [FI 907] Understanding Theatre (3)  
 THTRE 112 Theatre Practicum/Acting (3)

Foreign Language courses (4-16)

Other elective courses

### Required A.A. Degree Program Total: 62 credits

*Foreign Language Requirements: Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution.*



## Associate in General Studies Degree (A.G.S.) Guidelines

The Associate in General Studies (A.G.S.) degree, while not intended for transfer or directed at a specific occupation, allows students to design their own two-year program. It provides an opportunity to complete an associate's degree of one's own making. This degree has minimal general education requirements and thus allows one considerable freedom in designing and pursuing a course of study that meets individualized learning goals. Note, however, this degree is not recommended as a stepping-stone toward a baccalaureate degree, nor is it covered by the College's Educational Guarantee. A student considering the Associate in General Studies degree should meet with an advisor to determine whether this degree is well suited to his/her educational goals and needs.

### A.G.S. Degree Requirements

A student will be recommended for an Associate in General Studies degree upon completion of the following requirements:

1. Enrolled at Prairie State College for one semester immediately preceding graduation, with passing grades in at least 15 semester hours of credit at Prairie State College (excluding proficiency credits).
2. Completed 62 semester hours of college credit, 20 of which are specified below.
3. Attained a minimum grade point average of 2.0.
4. Completed at least one course in each of the major General Education components (communication, humanities and fine arts, science and mathematics and the social sciences).
5. Completed the remaining 47 credit hours for the degree based on the student's area of interest, and including any baccalaureate or occupationally oriented courses offered by the College and numbered 100 or higher.

## Associate in Applied Science

The Associate in Applied Science (A.A.S.) represents completion of a minimum of 60 credit hours in a technical or career program. Certificates are awarded after completion of up to 50 credits that focus on specific occupational or technical areas of study.

### A.A.S. Degree Requirements

An Associate in Applied Science degree is awarded to those students who successfully complete a program of study for a specific occupational area. Candidates for the A.A.S. Degree must fulfill the following requirements:

1. Enrolled at Prairie State College for two semesters immediately preceding graduation and successfully completed at least 15 semester hours of credits at Prairie State College (excluding proficiency credits).
2. Completed program requirements as specified by the occupational/technical degree program (minimum of 60 semester hours). This includes a General Education Core Curriculum, program-mandated occupational/technical courses, and electives as determined by the A.A.S. degree program.
3. Attained a minimum cumulative grade point average of 2.0 on a 4.0 scale in all Prairie State College courses.

4. Filed appropriate evidence of high school graduation or GED certificate with the Enrollment Services Office.

### A.A.S. Degree Components

The A.A.S. degree is composed of a general education component, a core concentration of occupational/technical courses, and other program electives.

#### I. General Education Core Curriculum for the A.A.S. Degree

##### AREA A: Communication (6 semester hours)

AREA A: Communication (6 semester hrs)

ENG 101 [C1 900] Composition I - with a grade of C or better

COMM 101 [C2 900] Principles of Communication

##### AREA B: Humanities and Fine Arts (3 semester hours)

One course, specified by program or selected from list for Area B at the front of this section.

##### AREA C: Mathematics - demonstrate competence by:

a) Placing into MATH 095 or above on the Prairie State College Assessment Test; or

b) Completing MATH 090 - with a grade of C or better; or

c) Completing a math course(s) as specified by the degree program.

##### AREA D: Physical and Life Sciences (3-4 semester hours)

One course, specified by program or selected from the list for Area D at the front of this section.

##### AREA E: Social and Behavioral Sciences (3 semester hours)

One course, specified by program or selected from the list for Area E at the front of this section.

#### II. Area of Concentration/Program Requirements

Program requirements are established by each department to reflect the core competencies expected in the workplace for specific occupations.

#### III. Electives

Electives are determined by each department based on options for specialization within a program or to provide students with choices related to their career goals.

## Certificate Guidelines

Certificates are awarded after completion of up to 50 credits that focus on specific occupational or technical areas of study. Certificates are awarded to those students completing education and training in a particular occupational field of study. A student will be recommended for a certificate if the following requirements are met:

### Certificate Requirements

1. Completed the certificate requirements as specified in the certificate program.
2. Attained a minimum grade point average of 2.0 in the courses identified in the certificate program.
3. Completed 15 credit hours or one-half of the required credit hours for programs that exceed 30 credit hours, as a student at Prairie State College and enrolled at Prairie State College during the regular semester immediately preceding the awarding of the certificate.

## Career Programs

The following list designates career degree and certificate programs by specific areas of study. Consult each program for the required curriculum. Curriculum for career programs reflects current workforce trends, skills standards, and licensure/accreditation standards where applicable.

### Automotive

Automotive Technology (A.A.S.)  
Automotive Alignment Specialist (Cert.)  
Automotive Brake Specialist (Cert.)  
Automotive Drivability Specialist (Cert.)  
Automotive Engines Specialist (Cert.)  
Automotive Heating/Air Conditioning Specialist (Cert.)  
Automotive Parts Specialist (Cert.)  
Automotive Service Management Specialist (Cert.)  
Automotive Services Technology (Cert.)  
Automotive Transmission Specialist (Cert.)

### Business

Management (A.A.S.)  
Accounting Technician (Cert.)  
Bookkeeping (Cert.)  
Business Essentials  
E-Business (see Information Technology)

### Computer Aided Design (CAD)

CAD/Mechanical Design Technology (A.A.S.)  
CAD/Mechanical Design Technology (Cert.)  
CAD Drafter (Cert.)  
CAD Technician (Cert.)

### Computer Electronics

Computer Electronics Technology (A.A.S.)  
Computer Electronics Technician (Cert.)

### Criminal Justice

Criminal Justice Services (A.A.S.)  
Criminal Justice Services (Cert.)

### Early Childhood

Child and Family Studies (A.A.S.)  
Child Care Assistant (Cert.)  
Early Childhood Director (Cert.)  
Early Childhood Teacher Basic (Cert.)

### Education–Paraprofessional

Paraprofessional Educator (A.A.S.)  
Paraprofessional Educator (Cert.)

### Emergency Services

Paramedicine (A.A.S.)  
Emergency Medical Technician (Cert.)  
First Responder (Cert.)

### Fire Science

Fire Science Technology (A.A.S.)  
Fire Science Technology (Cert.)  
Firefighter II (Cert.)  
Firefighter/EMT (Cert.)

### Fitness

Fitness and Exercise (A.A.S.)  
Group Fitness Instructor (Cert.)  
Personal Trainer (Cert.)

### Graphic Communications

Graphic Communications (A.A.S.)  
Digital Design (Cert.)  
E-Business (see Information Technology)  
Web Designer (Cert.)

### Health Professions

Dental Hygiene (A.A.S.)  
Nursing (A.A.S.)  
Advanced Bedside Care Provider (Cert.)  
CNA/Nurse Assistant (Cert.)  
RN First Surgical Assistant (Cert.)  
Surgical Technology (Cert.)

### Industrial Technology

CNC Programmer/Operator (Cert.)  
Heating, Ventilation, A/C & Refrigeration (Cert.)  
Hydraulics (Cert.)  
Industrial Electrician (A.A.S.)  
Industrial Electrician (Cert.)  
Industrial Maintenance Technician (Cert.)  
Machinist (Cert.)  
Manufacturing Technology (A.A.S.)  
Manufacturing Technology (Cert.)  
Millwright (Cert.)  
Tool & Die Making (A.A.S.)  
Tool & Die Making (Cert.)  
Welder Technician (Cert.)  
Welding Specialist (Cert.)

### Information Technology

Information Technology (A.A.S.)  
Computer Repair Specialist (Cert.)  
Desktop Publishing (Cert.)  
Digital Mass Communication (Cert.)  
E-Business (Cert.)  
Game Design and Development (Cert.)  
Network Security Specialist (Cert.)  
Networking Specialist (Cert.)  
Office Assistant (Cert.)  
Programming (Cert.)  
Software Specialist (Cert.)  
Software Technician (Cert.)  
Software User (Cert.)  
Web Developer (Cert.)  
Web Designer (Cert.)  
Webmaster (Cert.)

### Music

Music Production (A.A.S.)  
Music Technology (Cert.)

### Personal Trainer

(see Fitness)

### Photography

Photographic Studies (A.A.S.)  
Photography (Cert.)  
Portrait Photography (Cert.)

## Automotive Technology

Automotive Technology (A.A.S.)  
 Automotive Alignment Specialist  
 Automotive Brake Specialist  
 Automotive Drivability Specialist  
 Automotive Engines Specialist  
 Automotive Heating/Air Conditioning Specialist  
 Automotive Parts Specialist  
 Automotive Service Management Specialist  
 Automotive Services Technology  
 Automotive Transmission Specialist

Our Automotive Technology program is certified by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE). Certification was awarded in automatic transmission and transaxles, brakes, electrical/electronic systems, engine performance, engine repair, heating and air conditioning, manual drive train and axles, and suspension.

## Automotive Technology

### A.A.S. Degree

This program provides the balance of theory and practical knowledge necessary for students preparing for careers in the automotive technology industry. Service technicians are trained to maintain and repair cars, vans, small trucks, and other vehicles. Using both hand tools and specialized diagnostic test equipment, they learn to pinpoint problems and make necessary repairs or adjustments. In addition to forming complex and difficult repairs, technicians handle a number of routine maintenance procedures such as oil changes, tire rotation and battery replacement. Technicians also interact with customers to explain repair procedures and discuss maintenance needs.

### I. General Education Core (20)

#### Area A: Communication (6 credits)

ENG 101 Composition I - with a grade of C or better (3)  
 COMM 101 Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B on pages 50-52 (3)

#### Area C: Mathematics (4 credits)

MATH 151 College Algebra (4) required

#### Area D: Physical and Life Sciences (4 credits)

PHYSI 120 College Physics I (4) required

#### Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

## II. Area of Concentration/Program Requirements (47)

AUTO 101	Basic Automobile Service and Systems (3)
AUTO 102	Automotive Engines (4)
AUTO 107	Automotive Electricity/Electronics I (4)
AUTO 108	Suspension and Steering Systems (4)
AUTO 202	Automotive Brake Systems (4)
AUTO 205	Manual Transmissions and Transaxles (4)
AUTO 206	Automotive Engine Performance (4)
AUTO 207	Automotive Heating/Air-Conditioning (4)
AUTO 208	Automotive Transmissions/Transaxles (4)
AUTO 210	Automotive Electricity/Electronics II (4)
AUTO 211	Automotive Engine Performance II (4)
AUTO 215	Advanced Automotive Service and Systems (4)

**Program Total: 67 credits**

## Automotive Alignment Specialist Certificate

This short-term program trains students to function as front end mechanics. Students learn to align and balance wheels, as well as repair steering mechanisms and suspension systems.

### Program Requirements

AUTO 101	Basic Automobile Service and Systems (3)
AUTO 108	Steering and Suspension Systems (4)

**Program Total: 7 credits**

## Automotive Brake Specialist Certificate

Students in this program are trained to work on drum and disk braking systems, parking brakes and their hydraulic systems. Students learn to inspect, adjust, remove, repair and reinstall brake shoes, disk pads, drums, rotors, wheel and master cylinders, and hydraulic fluid lines.

### Program Requirements

AMATH 100	Basic Mathematics for the Skilled Trades (2)
AUTO 101	Basic Automobile Service and Systems (3)
AUTO 107	Automotive Electricity/Electronics I (4)
AUTO 202	Automotive Brake Systems (4)

**Program Total: 13 credits**

## Automotive Drivability Specialist

### Certificate

This short-term program trains students to diagnose Drivability problems. Students learn the basics of the engine, engine performance, how the electronics work, as well as the computer system functions of the vehicle. Students are taught to adjust the ignition timing and valves, and adjust or replace spark plugs or other parts to ensure efficient engine performance. Electronic test equipment is used to adjust and locate malfunctions in fuel, ignition, and emissions control systems.

### Program Requirements

AUTO 101	Basic Automobile Service and Systems (3)
AUTO 102	Automotive Engines (4)
AUTO 107	Automotive Electricity/Electronics I (4)
AUTO 206	Automotive Engine Performance (4)
AUTO 211	Automotive Engine Performance II (4)

**Program Total: 19 credits**

## Automotive Engines Specialist

### Certificate

This short-term program trains the student to function as an engine mechanic. Students learn to overhaul engines, as well as service the electrical needs of the engine.

### Program Requirements

AMATH 100	Basic Mathematics for the Skilled Trades (2)
AUTO 101	Basic Automobile Service and Systems (3)
AUTO 102	Automotive Engines (4)
AUTO 107	Automotive Electricity/Electronics I (4)

**Program Total: 13 credits**

## Automotive Heating/Air Conditioning Specialist

### Certificate

This short-term program prepares technicians to install and repair air-conditioners as well as service components such as compressors and condensers.

### Program Requirements

AMATH 100	Basic Mathematics for the Skilled Trades (2)
AUTO 101	Basic Automobile Service and Systems (3)
AUTO 107	Automotive Electricity/Electronics I (4)
AUTO 207	Automotive Heating/Air Conditioning (4)

**Program Total: 13 credits**

## Automotive Parts Specialist

### Certificate

This short-term program trains the student for positions in parts management. Students learn the parts management system as well as basic business management techniques and introductory computer skills.

### Program Requirements

AMATH 100	Basic Mathematics for the Skilled Trades (2)
AUTO 101	Basic Automobile Service and Systems (3)
AUTO 223	Automotive Parts Management (2)
ITAPP 101	Introduction to Computers (3)
Business Elective: Select one course from BUS 107, 127, 170, or 241 (3)	

**Program Total: 13 credits**

## Automotive Services Technology

### Certificate

This program prepares students for employment in automotive servicing and repair, engine testing, automotive field services, and automotive parts and shop management.

### Program Requirements

AUTO 101	Basic Automobile Service and Systems (3)
AUTO 102	Automotive Engines (4)
AUTO 107	Automotive Electricity/Electronics I (4)
AUTO 108	Suspension and Steering Systems (4)
AUTO 202	Automotive Brake Systems (4)
AUTO 205	Manual Transmissions and Transaxles (4)
AUTO 206	Automotive Engine Performance (4)
AUTO 207	Automotive Heating/Air Conditioning (4)
AUTO 208	Automatic Transmissions and Transaxles (4)
AUTO 210	Automotive Electricity/Electronics II (4)
AUTO 211	Automotive Engine Performance II (4)
AUTO 215	Advanced Automotive Service and Systems (4)

**Program Total: 47 credits**

## Automotive Service Management Technician

### **Certificate**

Service management specialists are the link between the customers seeking repair or maintenance for their vehicles and the technicians who perform the work. Students are trained to write repair orders, inspect vehicles to determine work that needs to be done, determine costs of the work, and prepare itemized estimates. In addition, students learn basic computer skills and basic business management skills. After gaining experience in entry-level positions, successful students can go on to the management/supervisory levels in auto shops.

### **Program Requirements**

AUTO 101 Basic Automobile Service and Systems (3)  
AUTO 224 Automotive Services Management (2)  
BUS 103 Business Mathematics (3)  
BUS 127 Business Communications (3)  
ITAPP 101 Introduction to Computers (3)  
Business Elective: Select from BUS 105, 107, 109, 170, 241, 242 (3)

**Program Total: 17 credits**

## Automotive Transmission Specialist

### **Certificate**

This short-term program trains mechanics to work on gear trains, couplings, hydraulic pumps, and other parts of automotive transmissions. Because these are complex mechanisms and include electronic parts, their repair requires considerable experience and training, including a knowledge of hydraulics.

### **Program Requirements**

AUTO 101 Basic Automobile Service and Systems (3)  
AUTO 102 Automotive Engines (4)  
AUTO 205 Manual Transmissions and Transaxles (4)  
AUTO 208 Automatic Transmissions/Transaxles (4)

**Program Total: 15 credits**

## Business

Management (A.A.S.)  
Accounting Technician  
Bookkeeping  
E-Business [see Information Technology]

## Management

### A.A.S. Degree

This program is designed for working adults who wish to develop or enhance skills for positions of greater responsibility. The program draws from business, finance, and economics to give prospective supervisors and managers guidelines for directing the work of others in a business environment and institutional organizations. Students may specialize in the functional areas of financial, marketing, human resources, or supply chain management.

### I. General Education Core (18-19)

#### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C or better.* (3)  
COMM 101 Principles of Communications (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

#### Area C: Mathematics (3 credits)

MATH 112 General Education Mathematics (3)

#### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D (3-4)

#### Area E: Social and Behavioral Science (3 credits)

ECON 201 Macroeconomic Principles (3)

### II. Area of Concentration/Program

#### Requirements (39-41)

BUS 101 Introduction to Modern Business (3)  
BUS 105 Human Relations (3)  
BUS 127 Business Communications (3)  
BUS 131 Financial Accounting (4)  
BUS 201 Business Law (3)  
BUS 241 Principles of Management (3)  
BUS 251 Principles of Marketing (3)  
BUS 298 Seminar (1)  
BUS 299 Internship (1-3)  
ECON 202 Microeconomic Principles (3)  
ITAPP 101 Introduction to Computers (3)  
Select ONE of the Specialization Options listed below (9)

#### Option A:

#### Financial Management

BUS 132 Managerial Accounting (3)  
BUS 138 Accounting Software I (1.5)  
BUS 139 Accounting Software II (1.5)  
BUS 165 Personal Asset Management (3)

#### Option B:

#### Marketing Management

BUS 120 Sales (3)  
BUS 170 Small Business Management (3)  
BUS 261 Advertising (3)

#### Option C:

#### Human Resources Management

BUS 109 Principles of Supervision (3)  
BUS 209 Supervisors as Trainers (3)  
BUS 242 Human Resources Management (3)

### III. Electives (1-3)

Select any additional college-level course(s). (1-3)

**Program Total: 60-64 credits**

## Accounting Technician

### Certificate

This certificate program prepares students for entry-level employment as an accounting assistant, junior accountant, junior auditor, head or full-charge bookkeeper, or junior analyst. This program is not designed for students who plan to become professional accountants and CPAs. Students interested in these careers should follow the Associate in Arts degree program for pre-Business majors.

### Program Requirements

BUS 101 Introduction to Modern Business (3)  
BUS 103 Business Mathematics (3)  
BUS 127 Business Communications (3)  
BUS 131 Financial Accounting (4)  
BUS 132 Managerial Accounting (3)  
BUS 138 Accounting Software I (1.5)  
BUS 139 Accounting Software II (1.5)  
BUS 201 Business Law (3)  
BUS 298 Seminar (1)  
BUS 299 Internship (1-3)  
ECON 201 Macroeconomic Principles (3)  
ITAPP 125 Spreadsheet Applications - Level 1 (2)  
ITAPP 126 Spreadsheet Applications - Level 2 (2)

**Program Total: 29-31 credits**

## Bookkeeping

### **Certificate**

This career certificate program is designed for individuals interested in pursuing careers as bookkeepers, accounts receivable or payable clerks, or payroll clerks. This program is not designed for students who plan to become professional accountants and CPAs. Students interested in these careers should follow the Associate in Arts Degree program for Pre-Business Majors.

### **Program Requirements**

BUS 101	Introduction to Modern Business (3)
BUS 103	Business Mathematics (3)
BUS 107	Bookkeeping and Procedural Accounting (3)
BUS 138	Accounting Software I (1.5)
BUS 139	Accounting Software II (1.5)

**Program Total: 12 credits**

## Business Essentials

### **Certificate**

This certificate provides students with basic knowledge of business practices for entry-level employment.

### **Program Requirements**

BUS 101	Introduction to Modern Business (3)
BUS 107	Bookkeeping and Procedural Accounting (3)
BUS 127	Business Communications (3)
BUS 241	Principles of Management (3)

**Program Total: 12 credits**

## Computer Aided Design (CAD)

CAD/Mechanical Design Technology (A.A.S.)

CAD Drafter

CAD/Mechanical Design Technology

CAD Technician

## CAD/Mechanical Design Technology

### A.A.S. Degree

This program prepares students for careers as drafters, mechanical designers, and CAD technicians. Areas of potential employment include drafter, dealer, layout designer, design technician, CAD operator, and CAD technician. The courses emphasize basic drafting and drawing skills, design and analysis of mechanisms and mechanical parts, and the use of CAD systems to draw, design, and analyze mechanical devices.

### I. General Education Core (20)

#### Area A: Communication (6 credits)

ENG 101 Composition I - with a grade of C or better (3)

COMM 101 Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

#### Area C: Mathematics (4 credits)

TECH 109 Technical Mathematics I (4)

#### Area D: Physical and Life Sciences (4 credits)

PHYSI 120 College Physics I (4)

#### Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

### II. Area of Concentration/Program Requirements (39)

CADMD 141 Technical Drafting I (3)

CADMD 201 Mechanical Layout and Design I (3)

CADMD 203 Statics and Strength of Materials (4)

CADMD 243 Introduction to Auto-CAD (3)

CADMD 244 Intermediate Auto-CAD (3)

CADMD 245 Computer Aided Design (3)

MT 101 Metal Working Processes I (3)

MT 102 Metal Working Processes II (3)

MT 210 CNC Programming I (3)

MT 211 CNC Programming II (3)

MATH 151 College Algebra (4)

PHYSI 130 College Physics II (4)

### III. Electives (2)

Select from CADMD 246, 247

**Program Total: 61 credits**

## CAD Drafter

### Certificate

This program is designed to prepare students for employment as entry-level CAD Drafters. Students will learn the skills and knowledge necessary to produce drawings, diagrams, charts, etc., using the Auto-CAD software. Hands-on experiences will include CAD system operation, drawing set-up, original drawings, copy, and modification of existing drawings and plotting.

### Program Requirements

CADMD 141 Technical Drafting I (3)

CADMD 243 Introduction to Auto-CAD (3)

CADMD 244 Intermediate Auto-CAD (3)

TECH 109 Technical Mathematics I (4)

**Program Total: 13 credits**

## CAD/Mechanical Design Technology

### Certificate

This certificate program prepares students for entry-level positions in mechanical drafting and CAD. The skills developed will enable the student to work as a drafter, dealer, technical illustrator, and CAD operator.

### Program Requirements

CADMD 141 Technical Drafting I (3)

CADMD 201 Mechanical Layout and Design I (3)

CADMD 203 Statics and Strength of Materials (4)

CADMD 243 Introduction to Auto-CAD (3)

CADMD 244 Intermediate Auto-CAD (3)

CADMD 245 Computer Aided Design (3)

CADMD 246 Architectural Desktop (2)

MT 101 Metal Working Processes I (3)

TECH 109 Technical Mathematics I (4)

**Program Total: 28 credits**

## CAD Technician

### Certificate

This program is designed to prepare students for a career as a CAD Technician and Designer. It provides a concentrated exposure in computer-aided drafting and design. This program is especially suitable for those currently employed in the field of mechanical design to update their design skills in the context of CAD systems. Persons seeking positions such as checker, layout designer, specifications writer, mechanical design technician, and CAD technician or designer will benefit from this program.

### Program Requirements

CADMD 141 Technical Drafting I (3)

CADMD 201 Mechanical Layout and Design I (3)

CADMD 243 Introduction to Auto-CAD (3)

CADMD 244 Intermediate Auto-CAD (3)

CADMD 245 Computer-Aided Design (3)

TECH 109 Technical Mathematics I (4)

**Program Total: 19 credits**

## Computer Electronics

Computer Electronics Technology (A.A.S.)  
Computer Electronics Technician

### Computer Electronics Technology

#### A.A.S. Degree

This program prepares students to work with the electronics components of computers and related equipment.

#### I. General Education Core (18-20)

##### Area A: Communication (6 credits)

ENG 101 Composition I - with a grade of C or better (3)

COMM 101 Principles of Communication (3)

##### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

##### Area C: Mathematics (3-4 credits)

Select from the following courses:

ITPRG106, MATH 151, TECH 109, or AMATH 100 and 101 (3-4)

##### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area B (3-4)

##### Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

#### II. Area of Concentration/Program Requirements (34)

CADMD 243 Introduction to Auto-CAD (3)

CET 101 Fundamentals of Electricity (2)

CET 103 Alternating Current (2)

CET 114 Digital Fundamentals (4)

CET 203 Instrumentation Fundamentals (4)

CET 211 Communication Electronics (4)

CET 220 Programmable Logic Controllers (4)

ELECT 111 Electronic Principles I (2)

ELECT 112 Electronic Principles II (2)

ITNET 160 Computer Repair (4)

ITPRG 140 Introduction to Operating Systems (3)

#### III. Electives (10)

Select from the following courses: (10)

ELECT 108, 109, 203, 204, 290

CADMD 244; ITWEB 101, 103, 201

**Program Total: 62-64 credits**

## Computer Electronics Technician

### Certificate

This program provides the electronics foundation for servicing computers and related electronics equipment.

#### Program Requirements

CADMD 243 Introduction to Auto-CAD (3)

CET 101 Fundamentals of Electricity (or ELECT 101) (2)

CET 103 Alternating Current (2)

CET 114 Digital Fundamentals (or ELECT 201 and 202) (4)

ELECT 111 Electronic Principles I (2)

ELECT 112 Electronic Principles II (2)

ITNET 160 Computer Repair (4)

ITPRG 140 Introduction to Operating Systems (3)

Select a minimum of 3 credit hours in mathematics from the following courses: (3-4)

AMATH 100 Basic Mathematics for the Skilled Trades (2)

**and**

AMATH 101 Algebra for the Skilled Trades (2)

ITPRG 106 Mathematics for Computers (3)

MATH 151 College Algebra (4)

TECH 109 Technical Mathematics I (4)

Select from the following courses: (9)

ELECT 108, 109, 203, 204, 290

CADMD 244; ITWEB 101, 103, 201

**Program Total: 34-35 credits**

## Criminal Justice

Criminal Justice Services (A.A.S.)  
Criminal Justice Services

### Criminal Justice Services

#### A.A.S. Degree

This program provides a foundation in criminal justice for individuals planning careers in the fields of law enforcement, corrections, probation, parole, or private security. The core criminal justice classes focus on the major components and operations of our system of justice at the local, county, state, and federal levels. Students study criminal law and procedure, corrections, and the courts. They also review the administration, organization, and processes of the overall criminal justice system. Proficiency credits are available for actively working full-time police officers (and corrections officers) who are certified by the Illinois Law Enforcement Training and Standards Board as a Law Enforcement Officer or Corrections Officer. These officers must have completed the Approved Basic Law Enforcement (or Corrections) Officer Training Academies (400 or 480 hours) and have one year or more of full-time experience as a police (or corrections) officer, and they must have completed their probationary period.

#### I. General Education Core (18-19)

##### Area A: Communication (9 credits)

ENG 101 Composition I - with a grade of C or better (3)  
ENG 102 Composition II - with a grade of C or better (3)  
COMM 101 Principles of Communication (3)

##### Area B: Humanities and Fine Arts (3 credits)

Select one course from the list for Area B (3)

##### Area C: Mathematics (demonstrated competence required)

Placement into MATH 095 or completion of MATH 090 - with a grade of C or better

##### Area D: Physical And Life Sciences (3-4 credits)

One course from the list for Area D

##### Area E: Social and Behavioral Sciences (3 credits)

POLSC 140 Introduction to U.S. Government & Politics (3) *required*

#### II. Area of Concentration/Program Requirements (42)

CJ 101 Introduction to Criminal Justice (3)  
CJ 102 Introduction to Criminology (3)  
CJ 103 Law Enforcement Organization and Administration (3)  
CJ 106 Introduction to Corrections (3)  
CJ 110 Community Based Policing (3)  
CJ 120 Introduction to Homeland Security (3)  
CJ 201 Introduction to Criminal Law (3)  
CJ 202 Civil and Criminal Laws/Procedures (3)  
CJ 203 Principles of Criminal Investigation (3)  
CJ 204 Juvenile Justice (3)  
CJ 208 Principles of Criminalities (3)  
CJ 270 Computer Forensics (3)  
ITAPP 101 Introduction to Computers (3)

Select one course from:

CJ 299 Criminal Justice Internship (3)  
PSYCH 101 Introduction to Psychology (3)  
SOCIO 101 Introduction to Sociology (3)

**Program Total: 60-61 credits**

## Criminal Justice Services

### Certificate

This program is designed for part-time students already employed in the fields of law enforcement, corrections and private security. The curriculum prepares students to advance their careers as public police officers and investigators, correctional officers, 911 telecommunications, or private security officers and investigators.

### Program Requirements

CJ 101 Introduction to Criminal Justice (3)  
CJ 102 Introduction to Criminology (3)  
CJ 103 Law Enforcement Organization and Administration (3)  
CJ 120 Introduction to Homeland Security (3)  
CJ 201 Introduction to Criminal Law (3)  
CJ 204 Juvenile Justice (3)  
ENG 101 Composition I (3)  
ITAPP 101 Introduction to Computers (3)  
Select from CJ 106, 110, 202, 203, 270 (6)

**Program Total: 30 credits**

## Early Childhood

Child and Family Studies (A.A.S.)  
 Child Care Assistant  
 Early Childhood Director  
 Early Childhood Teacher Basic

## Child and Family Studies

### A.A.S. Degree

The Child and Family Studies Associate in Applied Science degree program is designed for individuals who want to work directly with young children and their families in early care and education programs, human service organizations, or professional development services. The program provides both theoretical knowledge and practical skills.

*Please note: Students interested in teaching in the elementary schools in Illinois should enroll in the Associate in Arts Degree in pre-elementary or pre-early childhood education. Consult a counselor or advisor for further information. Students interested in pursuing the Level 1 Illinois Director Credential from the Illinois Network of Child Care Resource and Referral Agencies (INCCRA) have up to two years following graduation to document 1200 hours of early childhood/school age management experience. Either while earning their A.A.S. degree or following its completion, students must demonstrate that they have made contributions to the profession in one of the areas described in the program brochure.*

### I. General Education Core (19)

#### Area A: Communication (6 credits)

ENG 101 Composition I - with a grade of C or better. (3)  
 COMM 101 Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

#### Area C: Mathematics (3 credits)

MATH 111 Mathematics for Paraprofessionals (3)\*\*

#### Area D: Physical and Life Sciences (4 credits)

Select one laboratory science course from the courses for Area D (4)

#### Area E: Social and Behavioral Science (3 credits)

PSYCH 101 Introduction to Psychology (3)

### Program Requirements (42)

ED 101 Child Growth and Development (3)  
 ED 212 Exceptional Child (3)  
 ECED 102 Observation and Guidance of Children (3)  
 ECED 103 Health, Safety, and Nutrition (3)  
 ECED 104 Introduction to Early Childhood Education (3)  
 ECED 120 Child, Family, and Community (3)  
 ECED 130 Guidance and Classroom Management (3)  
 ECED 205 Language Arts for Children (3)  
 ECED 213 Multicultural Education (3)  
 ED 220 Children's Literature (3)  
 ECED 299 Early Childhood Education Internship (3)  
 Select 9 credit hours from the following courses:  
 ECED 105 Creative Activities for Children (3)  
 ECED 108 Science and Math for the Young Child (3)  
 ECED 110 Care and Education: Infants, Toddlers, 2-year olds (3)  
 ECED 214 Administration of Early Childhood Education Centers (3)  
 Required for students who plan to obtain the Illinois Director Credential

### Program Total: 61 credits

\*\* Note: Students who plan to continue studies beyond the A.A.S. degree should substitute MATH 112 or 115 for MATH 111.

## Child Care Assistant

### Certificate

This program teaches the practical skills necessary to provide direct care to young children in day care and preschool centers, home day care sites, hospital child-life programs, and community-based centers. Students are prepared for employment as child care assistants, assistant teachers, and other entry-level positions in the child care field.

*(According to the Department of Children and Family Service regulations, child care workers in Illinois must be at least 19 years of age and have a high school diploma or GED equivalency certificate).*

### Program Requirements

ECED 102 Observation and Guidance of Children (3)  
 ECED 103 Health, Safety, and Nutrition (3)  
 ECED 104 Introduction to Early Childhood Education (3)  
 ECED 299 Early Childhood Education Internship (3)  
 ED 101 Child Growth and Development (3)  
 ED 212 Exceptional Child (3)  
 ENG 101 Composition I (3)  
 MATH 111 Math for Paraprofessionals (3)

Select one of the following methods courses:

ECED 105 Creative Activities for Children (3)  
 ECED 108 Science and Math for the Young Child (3)

Select one course from the following:

ECED 120 Child, Family, and Community (3)  
 ECED 213 Multicultural Education (3)

Select one course from the following:

ECED 205 Language Arts for Children (3)  
 ED 220 Children's Literature (3)

*Note: Students seeking a Level 2 credential should substitute MATH 112 or MATH 115 for MATH 111.*

### Program Total: 33 credits

## Early Childhood Director

### ***Certificate***

This program prepares students to meet basic requirements to be an Early Childhood Care Director. DCFS requires two years of college credit in any area, with at least 18 hours in Early Childhood Education.

### **Program Requirements**

ED 101	Child Growth and Development (3)
ECED 102	Observation and Guidance of Children (3)
ECED 103	Health, Safety, and Nutrition (3)
ECED 104	Introduction to Early Childhood Education (3)
ECED 214	Administration of Early Childhood Education Centers (3)
ECED 299	Early Childhood Education Internship (3)

**Program Total: 18 credits**

## Early Childhood Teacher Basic

### ***Certificate***

This program prepares students to meet basic requirements for day care teacher approval. DCFS requires two years of college credit in any area including at least 6 hours in Early Childhood Education. Students completing this work are eligible for entry-level teaching in early childhood programs.

### **Program Requirements**

ED 101	Child Growth and Development (3)
ECED 104	Introduction to Early Childhood Education (3)

**Program Total: 6 credits**

## Education – Paraprofessional

Paraprofessional Educator (A.A.S.)

Paraprofessional Educator

### Paraprofessional Educator

#### A.A.S. Degree

The Paraprofessional Educator Associate in Applied Science Degree program is designed to prepare students to assist teachers in a variety of classroom settings, and to meet the standards for paraprofessional educators developed in response to the federal No Child Left Behind Act (NCLB). This curriculum is based on professional standards developed by the American Federation of Teachers, as well as the Paraprofessional Task Force convened by the Illinois State Board of Education (ISBE) and the Illinois Community College Board (ICCB).

*Please note: This program is not for students planning to become regularly certified professional teachers in Illinois public schools. Consult an advisor for more information.*

#### I. General Education Core (22)

##### Area A: Communication (9 credits)

ENG 101 Composition I - with a grade of C or better (3)

ENG 102 Composition II - with a grade of C or better (3)

COMM 101 Principles of Communication (3)

##### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B

Strongly recommended courses include ART 131; ENG 215; HUMAN 101

**Area C: Mathematics** (demonstrated competence required)

##### Area D: Physical and Life Sciences (4 credits)

Select one IAI approved laboratory science course from the courses for Area D (4)

##### Area E: Social and Behavioral Science (6 credits)

PSYCH 101 Introduction to Psychology (3) *required*

Select one additional course from Area E (3)

Strongly recommended courses include:

ANTHR 222 Introduction to Cultural and Social Anthropology (3)

HIST 112 World History: 1714 to Present (3)

HIST 115 African Civilizations I (3)

HIST 116 African Civilizations II (3)

HIST 140 History of Latin America (3)

HIST 201 U.S. History: 1492 to 1877 (3)

HIST 202 U.S. History: 1877 to Present (3)

POLSC 140 Introduction to U.S. Government & Politics (3)

SOCIO 220 Race Relations: A Multicultural Perspective (3)

#### Program Requirements (28)

ED 100 Foundations of American Public Education (3)

ED 101 Child Growth and Development (3)

ED 212 Exceptional Child (3)

ED 160 Technology for Teachers (3)

ED 220 Children's Literature (3)

ECED 103 Health, Safety, and Nutrition (3)

EDU 111 Mathematics for Paraprofessionals (3)

EDU 221 Clinical Experience (3)

*Note: Students already working as aides should arrange for proficiency credit for EDU 221*

Select one cultural awareness course from the following:

EDU 213 Multicultural Education (3)

**or**

EDU 120 Child, Family, and Community (3)

Select one teaching strategies course from the following:

ECED 105 Creative Activities for Children (3)

EDU 205 Language Arts for Children (3)

EDU 216 Teaching Mathematics to the Young Child (3)

#### III. ELECTIVES (12)

Select 12 credit hours from the following courses:

CJ 204 Juvenile Justice (3)

ECED 104 Introduction to Early Childhood Education (3)

EDU 130 Guidance and Classroom Management (3)

EDU 213 Multicultural Education (3)

**or**

EDU 120 Child, Family, and Community (3)

PSYCH 202 Educational Psychology (3)

PSYCH 203 Abnormal Psychology (3)

SOCIO 210 Marriage & the Family (3)

Any Social/Behavioral Science course (non-Western or diversity emphasis) listed at the front of this section. (3)

Any of the following courses required for elementary teacher certification:

HIST 201 U.S. History: 1492 to 1877 (3)

HIST 202 U.S. History: 1877 to Present (3)

POLSC 140 Introduction to U.S. Government & Politics (3)

Other identified courses related to content specialization. Consult with program coordinator.

#### Program Total: 62 credits

### Paraprofessional Educator Certificate

The Paraprofessional Educator Certificate program provides a foundation of important skills and standards that prepare paraprofessionals to work in non-Title I programs. Professional Education core requirements are combined with general education and special emphasis electives. Paraprofessionals who possess college credits that, when combined with this certificate total 60 credit hours, meet requirements of NCLB and are eligible to work in Title I positions.

#### Program Requirements

ENG 101 Composition I - with a grade of C or better (3)

ED 100 Foundations of American Public Education (3)

COMM 101 Principles of Communication (3)

*Note: ENG 101 should be taken prior to or concurrently with ED 100. These two courses and COMM 101 should be completed prior to enrollment in remaining courses.*

ED 212 Exceptional Child (3)

ED 160 Technology for Teachers (3)

ED 101 Child Growth, and Development (3)

ED 220 Children's Literature (3)

ECED 103 Health, Safety, and Nutrition (3)

EDU 111 Mathematics for Paraprofessionals (3)

SOCIO 101 Introduction to Sociology (3)

**or**

SOCIO 210 Marriage and the Family (3)

Select one of the following courses:

CJ 204; ECED 104; HUMAN 101; PSYCH 202; SOCIO 101, 210 (3)

#### Program Total: 33 credits

## Emergency Services

Paramedicine (A.A.S.)  
 Emergency Medical Technician  
 Firefighter/EMT  
 First Responder

### Paramedicine

#### A.A.S. Degree

This program prepares men and women for careers as advanced pre-hospital care providers, trained to administer care to clients who have experienced acute medical or trauma emergencies. As skilled health care providers, paramedics function independently in the field or under the guidance of standing medical orders. The program provides a combination of general education courses, core courses in paramedicine, and selected clinical and field experiences in hospitals and EMS departments. Upon successful completion, students will be eligible to write the National Registry licensing examination. No student will be permitted to write the licensing exam prior to completion of the Associate in Applied Science degree.

Prior to admission to the Paramedicine program, students must submit a Paramedicine Intent Form. The deadline for the intent form is June 1 of each year. To be eligible to enroll in the core paramedicine courses, students must have successfully completed the EMT-B course, passed the state licensing exam, presented documentation of a minimum of six months of field experience as an EMT-B and be "in good standing" with required continuing education credits. Students must also complete HLTH 105 General Medical Terminology, BIOL 221 Anatomy and Physiology I, and BIOL 222 Anatomy and Physiology II, all with a grade of C or better, before being eligible to enroll in EMS 200- level courses.

#### General Education Core (20)

##### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C or better* (3)  
 COMM 101 Principles of Communication (3)

##### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B.

##### Area C: Mathematics (4 credits)

Placement into MATH 095 or completion of MATH 090 with a grade of C or better.

##### Area D: Physical and Life Sciences (8 credits)

BIOL 221 Anatomy and Physiology I - *with a grade of C or better* (4)  
 BIOL 222 Anatomy and Physiology II - *with a grade of C or better* (4)

##### Area E: Social and Behavioral Sciences (3 credits)

PSYCH 101 Introduction to Psychology (3)

## II. Area of Concentration/Program Requirements (42)

EMS 101	Emergency Medical Technician (7)
HLTH 105	General Medical Terminology - <i>with a grade of C or better</i> (1)
EMS 200	Paramedicine I (12)
EMS 205	Paramedicine: Field Practicum I (2)
EMS 210	Paramedicine: Hospital Practicum (2)
EMS 215	Paramedicine: Seminar I (1)
EMS 220	Paramedicine II (12)
EMS 225	Paramedicine: Field Practicum II (2)
EMS 230	Paramedicine: Leadership Practicum (2)
EMS 235	Paramedicine: Seminar II (1)

**Program Total: 62 credits**

### Emergency Medical Technician Certificate

The EMT program provides students with the knowledge and skill needed to handle the critically ill and injured in a pre-hospital care environment. Areas covered include cardiac arrests, fractures, injuries, and childbirth. Students are prepared for the certification exam, which requires them to be at least 18 years of age. Students may obtain an information packet about prerequisite physical examination and immunizations from the Nursing Department at Prairie State College prior to the start of the course. Students must score a 78 or better on the reading portion of the COMPASS Placement Test to enroll in the course.

#### Program Requirements

EMS 101	Emergency Medical Technician (7)
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**Program Total: 7 credits**

### Firefighter/EMT

(See *Fire Science Technology*)

### First Responder

#### Certificate

This program trains citizens, fire fighters, police officers, and others to respond to emergency situations in the home, community, or workplace.

#### Program Requirements

FRESP 101	First Responder (3)
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**Program Total: 3 credits**

## Fire Science

Fire Science Technology (A.A.S.)  
Fire Science Technology  
Firefighter II  
Firefighter/EMT

## Fire Science Technology

### A.A.S. Degree

This curriculum prepares the student for employment as a volunteer, paid-on-call part-time, or full-time municipal firefighter.

### I. General Education Core (19)

#### Area A: Communication (6 credits)

ENG 101 Composition I - with a grade of C or better (3)  
COMM 101 Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B

#### Area C: Mathematics (3 credits)

MATH 112 General Education Mathematics (3)  
**or**  
MATH 115 General Education Statistics (3)

#### Area D: Physical and Life Sciences (4 credits)

Select one course from:

BIOL 100 General Education Biology (4)  
BIOL 112 Organismal Biology (4)  
CHEM 105 Survey of General Chemistry (4)  
PHYS 111 Physical Science (4)  
PHYS 112 Earth Science (4)  
PHYS 101 Conceptual Physics (4)

#### Area E: Social and Behavioral Sciences (3 credits)

PSYCH 101 Introduction to Psychology (3) *required*

### Program Requirements

#### I. General Education Core (37)

BUS 127 Business Communications (3)  
FST 101 Introduction to Fire Science Technology (3)  
FST 102 Fire Prevention Principles I (3)  
FST 104 Fire Tactics and Strategy I (3)  
FST 105 Construction and Fire Systems (3)  
FST 106 Hazardous Materials Operations (3)  
FST 119 Firefighter II (7)  
FST 202 Vehicle and Machinery Operations (3)  
FST 204 Fire Tactics and Strategy II (3)  
FST 210 Fire Apparatus Engineer (3)  
FST 212 Fire Service - Instructor I (3)

#### III. Electives (6)

Select from EMS 101; FST 121, 201, 205, 207, 208, 209, 213, 218, 219;  
FRESP 101; PHOTO 171 (6)

**Program Total: 62 credits**

## Fire Science Technology

### Certificate

This curriculum prepares the student for employment as a volunteer, paid-on-call part-time or full-time firefighter.

### Program Requirements

FST 101 Introduction to Fire Technology (3)  
FST 102 Fire Prevention Principles I (3)  
FST 104 Fire Tactics & Strategy I (3)  
FST 105 Construction & Fire Systems (3)  
FST 106 Hazardous Materials Operations (3)  
FST 207 Fire Department Management I (3)  
FST 208 Fire Department Management II (3)  
FST 210 Fire Apparatus Engineer (3)

**Program Total: 24 credits**

## Firefighter II

### Certificate

This program is designed for students seeking employment in fire service by preparing them for the State Firefighter II certification exam. Students receive training in areas that include fire behavior, safety, fire control, communication, hazardous materials, and fire prevention. Students demonstrate basic firefighter skills such as the use of ladders, hose, ropes, and breathing apparatus in a supervised setting.

*Students must complete FST 101 Introduction to Fire Science Technology with a grade of C or better, or document current affiliation with a fire department prior to admission to this program.*

### Program Requirements

FST 119 Firefighter II (7)

**Program Total: 7 credits**

## Firefighter/EMT

### Certificate

The Firefighter/EMT certificate will provide the beginning student in the emergency response occupations with fundamental skills in basic fire fighting techniques and emergency medical care. Both areas have independent certification exams that must be successfully completed to obtain employment in the field.

### Program Requirements

EMS 101 Emergency Medical Technician (7)  
FST 119 Firefighter II (7)

**Program Total: 14 credits**

## Fitness

Fitness and Exercise (A.A.S.)

Group Fitness Instructor

Personal Trainer

### Fitness and Exercise

#### A.A.S. Degree

Fitness and exercise students will be taught the skills to pursue professions in fitness/exercise. Students will acquire an academic foundation in the fundamentals, principles of exercise and nutrition, as well as an understanding of human anatomy and physiology. Skills will focus on the development of expertise in fitness assessment, creative health and fitness programming, biomechanically sound exercise techniques, training methodology, lifestyle change prescription, personalized exercise leadership, and business practices. Courses in English, math, communication, exercise physiology, special populations, and administration of an exercise facility will prepare the student to be a qualified fitness professional.

#### I. General Education Core (16)

##### Area A: Communication (6 credits)

ENG 101 Composition I - with a grade of C or better (3)

COMM 101 Principles of Communication (3)

##### Area B: Humanities (3 credits)

Select one course from Area B on pages. (3)

##### Area C: Mathematics (demonstrated competence required)

Placement into MATH 095 or completion of MATH 090 - with a grade of C or better

##### Area D: Physical and Life Sciences (4 credits)

BIOL 111 Cellular and Molecular Biology (4) *required*

##### Area E: Social and Behavioral Sciences (3 credits)

PSYCH 101 Introduction to Psychology (3) *required*

#### II. Program Requirements (47)

BIOL 108 Essentials of Anatomy and Physiology (4)\*

*Note: Completion of BIOL 221 and 222, Anatomy and Physiology I and II with a grade of C or better will be accepted in place of BIOL 108.*

BUS 101 Introduction to Modern Business (3)

FRESP 101 First Responder (3)

HLTH 101 Health and Wellness (2)

PES 210 Lifestyle Fitness Coaching (2)

PES 215 Group Fitness Instructor Training (3)

PES 220 Fitness Assessment/Program Design (3)

PES 225 Weight Training: Theory and Application (2)

PES 230 Nutrition for Sports and Exercise (3)

PES 235 Athletic Training Techniques (3)

PES 250 Kinesiology (3)

PES 255 Special Populations (3)

PES 260 Fitness/Exercise Facility Management (3)

PES 265 Physiology of Exercise (3)

PES 298 Internship Seminar (1)

PES 299 Internship (3)

PSYCH 212 Theories of Personality (3)

#### III. Electives (2)

Select two credits from the following group exercise courses:

PE 105, 106, 107, 108 (1); PES 202 (2)

**Program Total: 65 credits**

## Group Fitness Instructor

### Certificate

Group Fitness Instructor prepares students to provide group instruction in fitness. Students acquire basic knowledge of anatomy and physiology and nutrition as it relates to weight management. They are trained in first aid, CPR, and AED, and learn to motivate students using a full range of instructional strategies.

#### Program Requirements

BIOL 108 Essentials of Anatomy & Physiology (4)

FRESP 101 First Responder (3)

PES 215 Group Fitness Instructor Training (3)

PES 230 Nutrition for Sports & Exercise (3)

Select one course from:

PE 105, 106, 107, or 108 Aerobics I-IV (1)

**Program Total: 14 credits**

## Personal Trainer

### Certificate

Personal Trainers will acquire an academic foundation in the fundamental principles of exercise and nutrition, and a basic understanding of human anatomy and physiology. Practical skill training will focus on the development of expertise in fitness assessment, creative health and fitness programming, biomechanically sound exercise techniques, training methodology, lifestyle change prescription, personalized exercise leadership, and business practices.

#### Program Requirements

BIOL 108 Essentials of Anatomy and Physiology (4)

BUS 101 Introduction to Modern Business (3)

FRESP 101 First Responder (3)

HLTH 101 Health and Wellness (2)

PES 210 Lifestyle Fitness Coaching (2)

PES 215 Group Fitness Instructor Training (3)

PES 220 Fitness Assessment/Program Design (3)

PES 225 Weight Training: Theory and Application (2)

PES 230 Nutrition for Sports and Exercise (3)

PES 235 Athletic Training Techniques (3)

PES 250 Kinesiology (3)

PES 298 Internship Seminar (1)

PES 299 Internship for Personal Trainers (3)

**Program Total: 35 credits**

## Graphic Communications

Graphic Communications (A.A.S.)

Digital Design  
E-Business  
Web Designer

## Graphic Communications

### A.A.S. Degree

This visual communication program prepares students for entry-level positions as digital designers and illustrators in the graphics publishing and multimedia industry. Students may choose to emphasize digital design, illustration, or interactive design.

### I. General Education Core (15-16)

#### Area A: Communication (6 credits)

ENG 101 Composition I - with a grade of C or better. (3)  
COMM 101 Principles of Communication

#### Area B: Humanities and Fine Arts (3 credits)

ART 131 Survey of Non-Western Art (3) *recommended*  
or select one course from Area B (3)

#### Area C: Mathematics (demonstrated competence required)

Placement into MATH 095 or completion of MATH 090 - with a grade of C or better

#### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D (3-4)

#### Area E: Social and Behavioral Science (3 credits)

Select one course from Area E (3)

### II. Program Requirements (36)

ART 101 Two Dimensional Design (3)  
ART 102 Three Dimensional Design (3)  
ART 104 Drawing I (3)  
ART 106 Drawing II (3)  
ART 115 Introduction to Computer Art (3)  
ART 121 History of Western Art I (3)  
ART 122 History of Western Art II (3)  
GC 151 Principles of Graphic Design (3)  
GC 299 Internship/Seminar (3)

or

ART 295 Portfolio Seminar (3)

Select one option for specialization from the list below: (9)

#### Option A:

#### Digital Design (9 hrs)

GC 160 Design for Publishing (3)  
GC 287 Professional Design (3)  
ART 205 Printmaking (3)

#### Option B:

#### Illustration (9 hrs)

GC 171 Illustration I (3)  
ART 162 Life Drawing (3)  
ART 201 Painting I (3)

#### Option C:

#### Web Designer Specialization (12 hrs)

GC 162 Introduction to Web Site Development (3)  
GC 262 Flash/Interface Design (3)  
ITWEB 101 Web Page Authoring (3)  
ITWEB 105 Multimedia Writing (3)

### III. Electives(9)

Select 9 credits from ART, GC, and/or PHOTO courses.

Recommended electives for the Web Designer option include:

GC 175 Animation Techniques (2)  
GC 182 Digital Video (2)  
GC 185 Digital Sound (2)

**Program Total: 60 credits**

## Digital Design

### Certificate

This program provides a foundation in design and computer art and experience with specialized software and techniques required to work in the field of digital design. Students are prepared for entry-level or freelance work in electronic and print media.

### Program Requirements

ART 115 Introduction to Computer Art (3)  
ART 205 Printmaking (3)  
GC 151 Principles of Graphic Design (3)  
GC 160 Design for Publishing (3)  
GC 287 Professional Design (3)

**Program Total: 15 credits**

## E-Business

(See Information Technology)

## Web Designer

### Certificate

This program develops Web design skills with an emphasis on graphic design and digital media, including animation.

### Program Requirements

ART 115 Introduction to Computer Art (3)  
GC 151 Principles of Graphic Design (3)  
GC 162 Introduction to Web Site Development (3)  
(same as ITWEB 103)  
GC 262 Flash/Interface Design (3) (same as ITWEB 203)  
ITWEB 101 Web Page Authoring (3)  
ITWEB 105 Multimedia Writing (3)

**Program Total: 18 credits**

## Health Professions

Dental Hygiene (A.A.S.)  
 Nursing (A.A.S.)  
 Advanced Bedside Care Provider  
 CNA/Nurse Assistant  
 R.N. First Surgical Assistant  
 Surgical Technology

### Dental Hygiene

#### A.A.S. Degree

This program prepares students for careers in dental hygiene. It combines courses in general education, basic science, dental science and clinical science with learning experiences in the Dental Hygiene Clinic. Graduates of this program are eligible to sit for the state and regional licensing examinations. Courses must be completed in sequence. Those who desire part-time college enrollment may enroll only in the general education courses prior to applying for entry into the Dental Hygiene program.

*Please note: This program begins during summer sessions only and has special admissions requirements. Contact Enrollment Services to obtain a copy of the Dental Hygiene Information Booklet.*

#### I. General Education Core (19)

##### Area A: Communication (6 credits)

ENG 101 Composition I - with a grade of C or better (3)  
 COMM 101 Principles of Communication (3)

##### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

##### Area C: Mathematics (demonstrated competence required)

Placement into MATH 095 or completion of MATH 090 - with a grade of C or better

##### Area D: Physical and Life Sciences (4 credits)

CHEM 105 Survey of General Chemistry (4)

##### Area E: Social and Behavioral Sciences (6 credits)

PSYCH 101 Introduction to Psychology (3)  
 SOCIO 101 Introduction to Sociology (3)

#### II. Area of Concentration/Program Requirements (64)

BIOL 211 Microbiology (4)  
 BIOL 221 Human Anatomy and Physiology I (4)  
 BIOL 222 Human Anatomy and Physiology II (4)  
 DH 101 Histology (2)  
 DH 103 Head & Neck Anatomy and Tooth Morphology (5)  
 DH 104 Dental Radiology (4)  
 DH 105 Nutrition (2)  
 DH 106 General and Oral Pathology (2)  
 DH 107 Fundamentals of Dental Hygiene (2)  
 DH 108 Clinical Dental Hygiene I (4)  
 DH 109 Clinical Dental Hygiene II (4)  
 DH 116 Periodontology (2)  
 DH 120 Care of Special Populations (2)  
 DH 201 Clinical Dental Hygiene III (3)  
 DH 202 Clinical Dental Hygiene IV (5)  
 DH 203 Clinical Dental Hygiene V (5)  
 DH 204 Ethics, Law and Administration (2)  
 DH 205 Pharmacology (2)  
 DH 207 The Science and Application of Dental Material (4)  
 DH 220 Community Dental Health (2)

**Program Total: 83 credits**

## Nursing

#### A.A.S. Degree

This program prepares students for careers in nursing. The program combines courses in general and nursing education with selected learning experiences in hospitals and health agencies. Students will be required to perform at a predetermined satisfactory level on a nationally normed comprehensive exit exam at the conclusion of the program. Graduates of the Associate in Applied Science degree program may apply to take the NCLEX-RN examination for licensure as a registered nurse.

*Please note: This program has special admissions requirements! Contact Enrollment Services to obtain a copy of the Nursing Information Booklet. (starts fall only)*

*Prior to admission to the Nursing program, students must complete NURS 100 Nurse Assistant Training (7) with a grade of C or better or demonstrate current status on the Illinois Certified Nurse Assistant (CNA) Registry. Credit earned for NURS 100 is not included in the 66 credit hours required for the Nursing A.A.S. degree.*

*Students also must complete BIOL 221 Human Anatomy and Physiology I (4) with a grade of C or better prior to admission to the Nursing program. Credit earned for BIOL 221 is included in the 66 credit hours required.*

*Students are encouraged to complete as many general education courses as possible before enrolling in the Nursing Core Courses listed below in Section II.*

#### LPN Bridge Program

*LPNs who are seeking the A.A.S. in Nursing degree should consult with the Nursing Advisor in the Admissions Office for information on bridging options.*

#### I. General Education Core (22)

##### Area A: Communication (9 credits)

ENG 101 Composition I - with a grade of C or better (3)  
 ENG 102 Composition II (3)  
 COMM 101 Principles of Communication (3)

##### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B. (3)

##### Area C: Mathematics (demonstrated competence required)

Placement into MATH 095 or completion of MATH 090 - with a grade of C or better

##### Area D: Physical and Life Sciences (4 credits)

BIOL 221 Human Anatomy and Physiology I (4)

##### Area E: Social and Behavioral Sciences (6 credits)

PSYCH 101 Introduction to Psychology (3)  
 PSYCH 102 Human Growth & Development: Life-Span (3)

#### II. Area of Concentration/Program Requirements (46)

BIOL 211 Microbiology (4)  
 BIOL 222 Human Anatomy and Physiology II (4)  
 NURS 101 Basic Care Needs (6)  
 NURS 102 Acute Care Needs (7)  
 NURS 111 Nursing as a Profession (1)  
 NURS 201 Family Care Needs (11)  
 NURS 202 Advanced Care Needs (11)  
 NURS 211 Preparation for Professional Nursing (2)

**Program Total: 68 credits**

## Advanced Bedside Care Provider

### Certificate

This certificate program will provide students with theoretical background and psychomotor skills needed to provide basic bedside care. CNA competencies are enhanced by instruction in communication strategies and human behavior. This will prepare the bedside care provider to improve his/her ability to interact with clients, families and other members of the health care team.

*Note: Students must be actively listed in the State of Illinois CNA Registry in order to complete this certificate. Students currently listed in the State of Illinois CNA Registry may qualify for proficiency credit for NURS 100. Contact the Dean of Health Professions for information.*

### Program Requirements

COMM 101 Principles of Communication (3)  
NURS 100 Nurse Assistant Training (7)  
PSYCH 101 Introduction to Psychology (3)

**Program Total: 13 credits**

## CNA/Nurse Assistant

### Certificate

The Nursing Assistant Training Program has been designed to provide students with the theory and skills necessary to give basic patient care in a nursing home or hospital. The course includes instruction in basic bedside skills such as bed baths, moving and lifting, enemas, and other techniques. Students will receive practice in a lab setting and in a nursing home. Successful completion of this program qualifies the student for the Illinois Basic Nursing Assistant Certificate and to take the state approved Competency Examination.

### Program Requirements

NURS 100 Nurse Assistant Training\* (7)

**Program Total: 7 credits**

*\*Along with regular lectures, students will have clinicals in some local facilities such as long-term care facilities, where they will perform basic nursing care under the guidance of a registered nurse.*

## R.N. First Surgical Assistant

### Certificate

This program is designed for employed registered nurses with a minimum of two years current acute care setting operating room experience. It provides further training to enable nurses to competently assist the surgeon during surgical procedures requiring an assistant.

*Note: Contact the Dean of Health Professions for additional enrollment requirements.*

### Program Requirements

RN 100 R.N. First Assistant (3)  
RN 101 R.N. First Assistant Internship (3)

**Program Total: 6 credits**

## Surgical Technology

### Certificate

*Please note: This program has special admissions requirements. Contact Enrollment Services to obtain a copy of the Surgical Technologist Application Procedures Booklet.*

This program prepares students to work as surgical technologists in the operating room, labor and delivery, ambulatory surgical care centers, cardiac catheterization laboratories, physician's offices, or central supply units. Surgical technologists work under medical supervision to facilitate safe and effective performance of invasive surgical procedures aimed at optimizing patient safety. This program meets nationally established standards for Surgical Technology. It has been approved by the Commission on Accreditation of Allied Health Programs (CAAHEP). Graduates may sit for the Surgical Technologist national certification exam administered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA).

This program begins only in the fall semester and takes one year to complete. It is essentially a 40-hour per week day-time program which includes both classes and clinical labs. Clinicals will be held in hospital operating rooms with students working with a preceptor. Students must have their own transportation to travel to a hospital site within a 45-mile radius. Upon completion of the program, students will take the certification examination administered by the National Board of Surgical Technology and Surgical Assisting (NBSTSA) to become a Certified Surgical Technologist (CST).

### Program Requirements

*(All courses must be completed with a C grade or better)*

BIOL 115 Microbiology for Surgical Technologists (4)  
HLTH 102 Workplace Issues for Allied Health (1)  
SRT 102 Patient Care I (2)  
SRT 103 Patient Care II (1)  
SRT 110 Introduction to Surgical Technology (7)  
SRT 120 Surgical Procedures I (5)  
SRT 122 Applied Surgical Procedures I (1)  
SRT 130 Surgical Procedures II (6)  
SRT 132 Applied Surgical Procedures II (2)  
SRT 140 Surgical Procedures III (6)  
SRT 142 Applied Surgical Procedures III (2)  
SRT 298 Surgical Technology Seminar (4)  
SRT 299 Applied Surgical Procedures IV (2)

**Program Total: 43 credits**

## Industrial Technology

CNC Programmer/Operator  
Heating, Ventilation, Air Conditioning and Refrigeration  
Hydraulics  
Industrial Electrician (A.A.S.)  
Industrial Electrician  
Industrial Maintenance Technician  
Machinist  
Manufacturing Technology (A.A.S.)  
Manufacturing Technology  
Millwright  
Tool & Die Making (A.A.S.)  
Tool & Die Making  
Welder Technician  
Welding Specialist

### CNC Programmer/Operator

#### Certificate

This program is designed to prepare people to be CNC Programmers/Operators. The curriculum emphasizes programming and operation of both milling and turning CNC equipment. Additionally, the student will receive instruction in these important related areas: machine tool operation and applications, mathematics, and drafting/CAD.

#### Program Requirements

CADMD 243 Introduction to AutoCAD (3)  
MT 101 Metal Working Processes I (3)  
MT 102 Metal Working Processes II (3)  
MT 210 CNC Programming I (3)  
MT 211 CNC Programming II (3)  
MT 214 CAD/CAM Systems (3)  
TECH 109 Technical Mathematics I (4)  
MATH 151 College Algebra (4)  
Electives: Select from CADMD 244, 245; MT 212, 215 (6)

**Program Total: 32 credits**

## Heating, Ventilation, Air-Conditioning and Refrigeration

#### Certificate

This program prepares heating and cooling technicians to work on systems that control the temperature, humidity, and air quality of enclosed environments. Students learn to assemble, install, maintain and service climate control equipment. Typical entry-level positions include service technicians, new installation technicians, and sales positions.

#### Program Requirements

AMATH 100 Basic Math for the Skilled Trades (2)  
HVACR 101 Fundamentals of Refrigeration (2)  
HVACR 102 Advanced Refrigeration (2)  
HVACR 103 Air Conditioning (2)  
HVACR 104 Advanced Air Conditioning (2)  
HVACR 105 Heating System Applications (2)  
HVACR 107 Electrical Control Applications (2)  
HVACR 108 Advanced Controls (2)  
HVACR 109 Installation & Service of HVACR Systems (2)  
HVACR 110 Troubleshooting HVACR Systems (2)  
HVACR 112 Sheet Metal Layout and Fabrication (2)  
Electives: Select from WELD 101; HVACR 114; or courses chosen with coordinator's consent. (4)

**Program Total: 26 credits**

## Hydraulics

#### Certificate

This program is designed for students who are working on machines in industry that have fluid control devices.

#### Program Requirements

AMATH 100 Basic Math for the Skilled Trades (2)  
AMATH 101 Algebra for the Skilled Trades (2)  
AMATH 103 Geometry for the Skilled Trades (2)  
AMATH 106 Applied Trigonometry for the Skilled Trades (2)  
AMATH 107 Trigonometry & Shop Applications I (2)  
APHYS 100 Applied Physics (2)  
DRAFT 101 Drafting Essentials (2)  
DRAFT 102 Drafting Conventions and Symbols (2)  
ELECT 100 Electric Wiring I (2)  
ELECT 101 Fundamentals of Electricity I (2)  
HYDR 101 Fundamental of Hydraulics (2)  
HYDR 102 Hydraulic Pumps (2)  
HYDR 103 Hydraulic Controls (2)  
HYDR 104 Basic Hydraulic Circuits (2)  
HYDR 106 Pneumatics (2)  
MILL 101 Industrial Maintenance Techniques I (2)  
PLUMB 101 Fundamentals of Plumbing (2)

**Program Total: 34 credits**

## Industrial Electrician

### A.A.S. Degree

The industrial electrician degree program prepares students for work as electricians in industry. To meet the demands of changing technology, training encompasses electronics as well as electrician skills. Students pursuing the A.A.S. degree on a full-time schedule will be prepared for entry-level positions as industrial electricians. This training has been approved by the United States Bureau of Apprenticeship Training.

### I. General Education Core (17-18)

#### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C or better.* (3)  
COMM 101 Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

#### Area C: Mathematics (2)

AMATH 101 Algebra for the Skilled Trades (2)

#### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D (3-4)

#### Area E: Social and Behavioral Science (3 credits)

Select one course from Area E (3)

### II. Program Requirements (37)

ELECT 100 Electric Wiring I (2)  
ELECT 101 Fundamentals of Electricity I (2)  
ELECT 102 Fundamentals of Electricity II (2)  
ELECT 103 Alternating Current (2)  
ELECT 105 Power, Transformers, Polyphase Circuits (2)  
ELECT 106 DC Motors and Generators (2)  
ELECT 107 AC Motors and Generators (2)  
ELECT 108 Electrical Control for Machines I (2)  
ELECT 109 Electric Control for Machines II (2)  
ELECT 111 Electronic Principles I (2)  
ELECT 112 Electronic Principles II (2)  
ELECT 113 Blueprint Reading for Electricians (2)  
ELECT 114 National Electrical Code (2)  
ELECT 120 Electrical Safety (2)  
ELECT 203 Industrial Electronics I (2)  
ELECT 204 Industrial Electronics II (2)  
ELECT 208 Programmable Logic Controllers I (2)  
ELECT 209 Programmable Logic Controllers II (2)  
ELECT 298 Electrical Seminar (1)  
ELECT 299 Electrical Internship (2)

### III. Electives (10)

Select from ELECT 141, 150, 201, 202, 206, 207, 290; MATH 151; PHYSI 130 (10)

### Program Total: 64-65 credits

## Industrial Electrician

### Certificate

Industrial Electricians are prepared to troubleshoot and maintain electrical devices used in a manufacturing industry; install electrical machines and wiring; and wire electrical panels.

### Program Requirements

AMATH 101 Algebra for the Skilled Trades (2)  
ELECT 100 Electric Wiring I (2)  
ELECT 101 Fundamentals of Electricity I (2)  
ELECT 102 Fundamentals of Electricity II (2)  
ELECT 103 Alternating Current (2)  
ELECT 106 DC Motors and Generators (2)  
ELECT 107 AC Motors and Generators (2)  
ELECT 108 Electrical Control for Machines I (2)  
ELECT 109 Electric Control for Machines II (2)  
ELECT 113 Blueprint Reading for Electricians (2)  
ELECT 114 National Electrical Code (2)  
ELECT 120 Electrical Safety (2)  
ELECT 203 Industrial Electronics I (2)  
ELECT 204 Industrial Electronics II (2)  
ELECT 208 Programmable Logic Controllers I (2)

Select from ELECT 111, 112, 141, 201, 202, 206, 207, 209, 290; MATH 151; (9)

### Program Total: 35 credits

## Industrial Maintenance Electrician

### Certificate

This program trains students for a company's individual workplace needs. Students complete a core program and then focus in one or several technical areas.

### Program Requirements

AMATH 100 Basic Mathematics for the Skilled Trades (2)  
AMATH 101 Algebra for the Skilled Trades (2)  
ELECT 100 Electric Wiring I (2)  
MILL 101 Industrial Maintenance Techniques I (2)  
PLUMB 101 Fundamentals of Plumbing (2)  
WELD 101 Principles of Flat Welding (2)

Select one drafting or blueprint reading course from the following:  
DRAFT 101, 102, 115; ELECT 113; CADMD 141 (2-3)

Select one OSHA mandated safety elective from ELECT 120 or MT 120 (2)

Select technical courses from the following areas: (18)

(Applied Math) AMATH 103, 106, 107, 108, 110

(Applied Physics) APHYS 100

(Business) BUS 109, 242

(Drafting) DRAFT 101, 102, 105; CADMD 141

(Heating/Ventilation/Air Conditioning) HVACR 101, 102, 104, 105, 107, 108, 109

(Hydraulics) HYDR 101, 103, 106

(Industrial Electricity) ELECT 101, 102, 103, 105, 106, 107, 109, 110, 111, 112, 113, 114, 120, 150, 201, 202, 203, 204, 206, 207, 208, 209, 298, 299

(Information Technology) ITAPP 101

(Manufacturing Technology) MT 101, 102, 120, 220, 221

(Millwright) MILL 102, 103, 105, 106, 107, 108

(Plumbing/Pipefitting) PLUMB 102, 103, 104

(Welding) WELD 102, 103, 104, 105, 106, 201, 202

### Program Total: 34-35 credits

## Machinist

### Certificate

This program prepares students to enter machinist craft fields. Machinist training teaches students to custom build metal devices in both a job shop or a manufacturing establishment.

### Program Requirements

AMATH 100	Basic Math for the Skilled Trades (2)
AMATH 101	Algebra for the Skilled Trades (2)
AMATH 103	Geometry for the Skilled Trades (2)
DRAFT 115	Blueprint Reading for Mechanical Trades (2)
CADMD 141	Technical Drafting I (3)
CADMD 243	Introduction to AutoCAD (3)
MT 101	Metal Working Processes I (3)
MT 102	Metal Working Processes II (3)
MT 105	Metal Working Processes III (3)
MT 210	CNC Programming I (3)
MT 211	CNC Programming II (3)
MT 220	Metallurgy - Ferrous (2)

**Program Total: 31 credits**

## Manufacturing Technology

### A.A.S. Degree

This program prepares personnel for a wide range of manufacturing related occupations. These include machine operator, machinist, CNC operator, CNC programmer, and robotics programmer. Coursework includes basic machine shop operations and processes, CNC machine operation and programming, CAD/CAM fundamentals, robotics and automated manufacturing applications. This program prepares technicians to operate, program, design and install manufacturing, assembly and materials handling equipment. Students who wish to pursue a bachelor's degree in this program should consult an enrollment advisor regarding transfer information.

### I. General Education Core (20)

#### Area A: Communication (6 credits)

ENG 101	Composition I - with a grade of C or better (3)
COMM 101	Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from the list for Area B (3)

#### Area C: Mathematics (4 credits)

TECH 109	Technical Mathematics I (4) <i>required</i>
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#### Area D: Physical and Life Sciences (4 credits)

PHYSI 120	College Physics I (4) <i>required</i>
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#### Area E: Social and Behavioral Sciences (3 credits)

Select one course from the list for Area E (3)

### II. Area of Concentration/Program Requirements (39)

CADMD 141	Technical Drafting I (3)
CADMD 243	Introduction to Auto-CAD (3)
MT 101	Metal Working Processes I (3)
MT 102	Metal Working Processes II (3)
MT 105	Metal Working Processes III (3)
MT 210	CNC Programming I (3)
MT 211	CNC Programming II (3)
MT 212	Introduction to Robotics (3)
MT 214	CAD/CAM Systems (3)
MT 215	Manufacturing Systems (4)
MATH 151	College Algebra (4)
PHYSI 130	College Physics II (4)

### III. Electives (2)

Select from CADMD 244; HYDR 101; WELD 101 (2)

**Program Total: 61 credits**

## Manufacturing Technology

### Certificate

This certificate program is designed for individuals who do not seek the associate degree, yet still want the technical skills and knowledge necessary for successful employment in the field of manufacturing. The curriculum provides instruction for such occupations as machine operator, machinist, and CNC operator.

### Program Requirements

CADMD 141	Technical Drafting I (3)
MT 101	Metal Working Processes I (3)
MT 102	Metal Working Processes II (3)
MT 210	CNC Programming I (3)
MT 212	Introduction to Robotics (3)
TECH 109	Technical Mathematics (4)
Select from CADMD 243, 244; CET 103; ELECT 103; HYDR 101; MT 211, 214, 215, 220; WELD 101 (12)	

**Program Total: 31 credits**

## Millwright

### Certificate

This program trains students to move and install various metalworking machines according to a firm's management requests. Millwrights are high-skilled workers trained to dismantle, operate, repair, or lubricate industrial machinery. They are skilled in the use of basic tools and machinery and can read blueprints and schematic designs.

### Program Requirements

AMATH 100	Basic Mathematics for the Skilled Trades (2)
AMATH 101	Algebra for the Skilled Trades (2)
DRAFT 101	Drafting Essentials (2)
DRAFT 102	Drafting Conventions & Symbols (2)
DRAFT 115	Blueprint Reading for the Mechanical Trades (2)
HYDR 101	Fundamentals of Hydraulics (2)
HYDR 106	Pneumatics (2)
MILL 101	Industrial Maintenance Techniques I (2)
MILL 102	Industrial Maintenance Techniques II (2)
MILL 103	Lubrication (2)
MILL 105	Rigging (2)
MILL 106	Power Train Elements (2)
MILL 107	Machine Vibration Analysis I (2)
WELD 101	Principles of Flat Welding (2)
WELD 102	Horizontal Welding and Brazing (2)

Select from MILL 108; PLUMB 101 (2)

**Program Total: 32 credits**

## Tool and Die Making

### A.A.S. Degree

The Tool and Die Making curriculum meets the standards of the United States Bureau of Apprenticeship which requires a minimum of 144 contact hours of related classroom instruction per year for an apprenticeship. The program is coordinated with area firms.

### I. General Education Core (19-20)

#### Area A: Communication (6 credits)

ENG 101	Composition I - with a grade of C or better (3)
COMM 101	Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

#### Area C: Mathematics (4)

AMATH 100	Basic Math for the Skilled Trades (2)
AMATH 101	Algebra for the Skilled Trades (2)

#### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D

#### Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

### II. Program Requirements (41)

AMATH 103	Geometry for the Skilled Trades (2)
AMATH 106	Applied Trigonometry for the Skilled Trades (2)
AMATH 107	Trigonometry & Shop Applications for the Skilled Trades (2)
AMATH 108	Compound Angles for the Skilled Trades (2)
AMATH 110	Gearing & Cams for the Skilled Trades (2)
CADMD 141	Technical Drafting I (3)
CADMD 243	Introduction to Auto-CAD (3)
DRAFT 105	Design Applications for Mechanical Trades (2)
HYDR 101	Fundamentals of Hydraulics (2)
HYDR 106	Pneumatics (2)
MILL 101	Industrial Maintenance Techniques I (2)
MT 101	Metal Working Processes I (3)
MT 102	Metal Working Processes II (3)
MT 105	Metal Working Processes III (3)
MT 220	Metallurgy - Ferrous (2)
TOOL 101	Tool and Die Processes (2)
TOOL 102	Tool and Die Maintenance (2)
WELD 101	Principles of Flat Welding (2)

**Program Total: 60-61 credits**

## Tool and Die Making

### Certificate

This curriculum prepares students to reconstruct and rebuild dies, maintain old dies, replace punches and redress, make adjustments on draw dies, redress and keep equipment to quality performance while in production.

### Program Requirements

AMATH 100	Basic Math for the Skilled Trades (2)
AMATH 101	Algebra for the Skilled Trades (2)
AMATH 103	Geometry for the Skilled Trades (2)
AMATH 106	Applied Trigonometry for the Skilled Trades (2)
AMATH 107	Trigonometry and Shop Applications for the Skilled Trades (2)
CADMD 141	Technical Drafting I (3)
CADMD 243	Introduction to Auto-CAD (3)
DRAFT 105	Design Applications for Mechanical Trades (2)
HYDR 101	Fundamentals of Hydraulics (2)
HYDR 106	Pneumatics (2)
TOOL 101	Tool and Die Processes (2)
TOOL 102	Tool and Die Maintenance (2)
MT 101	Metal Working Processes I (3)
MT 102	Metal Working Processes II (3)
MT 105	Metal Working Processes III (3)
MT 220	Metallurgy - Ferrous (2)

**Program Total: 37 credits**

## Welder Technician

### Certificate

The curriculum prepares students to perform various welding jobs for maintenance manufacturing machines. The training also prepares students to custom build devices by working from machine drawings and specifications.

### Program Requirements

AMATH 100	Basic Mathematics for the Skilled Trades (2)
AMATH 101	Algebra for the Skilled Trades (2)
AMATH 103	Geometry for the Skilled Trades (2)
AMATH 106	Applied Trigonometry for the Skilled Trades (2)
DRAFT 101	Drafting Essentials (2)
DRAFT 102	Drafting Conventions & Symbols (2)
DRAFT 103	Three Dimensional Shapes (2)
MT 220	Metallurgy - Ferrous (2)
WELD 101	Principles of Flat Welding (2)
WELD 102	Horizontal Welding and Brazing (2)
WELD 103	Metal Inert and Vertical Welding (2)
WELD 104	Tungsten Inert and Overhead Welding (2)
WELD 105	A.W.S. Structural Certification (2)

Select 8 credits from the following courses: APHYS 100; HYDR 101; MT 101, 221; PLUMB 103; WELD 106, 201, 202 (8)

**Program Total: 34 credits**

## Welding Specialist

### Certificate

This certificate program is designed to concentrate on welding skills utilizing processes that are most widely employed in business and industry. The welding proficiency and knowledge gained in this program supplement most skilled construction trades.

### Program Requirements

AMATH 100	Basic Mathematics for the Skilled Trades (2)
DRAFT 101	Drafting Essentials (2)
WELD 101	Principles of Flat Welding (2)
WELD 102	Horizontal Welding and Brazing (2)
WELD 103	Metal Inert and Vertical Welding (2)
WELD 104	Tungsten Inert and Overhead Welding (2)
WELD 105	A.W.S. Structural Certification (2)
WELD 106	Pipe and Pressure Vessel Certification (2)
WELD 201	Advanced Gas Metal Arc Welding (2)
WELD 202	Advanced Gas Tungsten Arc Welding (2)

**Program Total: 20 credits**

## Information Technology

Computer Electronics Technology (A.A.S.)  
 Computer Electronics Technician  
 Information Technology (A.A.S.)  
 Administrative Assistant Option  
 Networking Option  
 Programming Option  
 Software Application Option  
 Webmaster Option  
 Computer Repair Specialist  
 Desktop Publishing  
 Digital Mass Communication  
 E-Business  
 Game Design and Development  
 Network Security Specialist  
 Networking Specialist  
 Office Assistant  
 Programming  
 Software Specialist  
 Software Technician  
 Software User  
 Web Developer  
 Web Designer  
 Webmaster

## Information Technology

### A.A.S. Degree

This program prepares students for the rapidly changing world of computers, computer applications and the office environment. After completing introductory courses, students may choose one of the following options: administrative assistant, networking, programming, software applications, or Webmaster. Career opportunities vary according to the option selected.

### Information Technology: Administrative Assistant Option

#### I. General Education Core (18-19)

##### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C or better* (3)  
 COMM 101 Principles of Communication (3)

##### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

##### Area C: Mathematics (3 credits)

BUS 103 Business Mathematics (3) or

##### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D (3-4)

##### Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

#### II. Program Requirements (46)

Core Courses:

BUS 101 Introduction to Modern Business (3)  
 ITAPP 101 Introduction to Computers (3)  
 BUS 107 Bookkeeping and Procedural Accounting (3)  
 ITOFS 299 Internship (2)

Administrative Assistant Concentration Courses:

ITAPP 109 Introduction to the Internet (1)  
 ITAPP 121 Word Processing Applications - Level 1 (3)  
 ITAPP 122 Word Processing Applications - Level 2(3)  
 ITAPP 125 Spreadsheet Applications - Level 1 (2)  
 ITAPP 128 Database Applications - Level 1 (2)  
 ITAPP 132 Desktop Publishing (3)  
 ITAPP 133 Presentation Applications (2)  
 ITOFS 111 Business Document Formatting (2)  
 ITOFS 112 Intermediate Keyboarding Applications (2)  
 ITOFS 117 Keyboarding Skill Development (1)  
 ITOFS 119 Office Procedures (3)  
 ITOFS 122 Transcription Skills (3)  
 ITOFS 219 Office Management (3)  
 ITOFS 221 Advanced Keyboarding Applications (2)  
 Select from the following: ITAPP 126, 232; ITOFS 100; ITPRG 103, 140, 142, 205 (3)

**Program Total: 64 credits**

### Information Technology: Networking Option

#### I. General Education Core (18-19)

##### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C or better* (3)  
 COMM 101 Principles of Communication (3)

##### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

##### Area C: Mathematics (3 credits)

ITPRG 106 Mathematics for Computers (3)

##### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D (3-4)

##### Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

#### II. Program Requirements (46)

Core Courses:

BUS 101 Introduction to Modern Business (3)  
 ITAPP 101 Introduction to Computers (3)  
 BUS 107 Bookkeeping and Procedural Accounting (3)  
 ITNET 299 Internship (2)

Networking Concentration Courses:

ITNET 160 Computer Repair (4)  
 ITNET 165 Introduction to Networking (3)  
 ITNET 250 Intro to LAN Administration (3)  
 ITPRG 103 Intro to Programming (3)  
 ITPRG 140 Intro to Operating Systems (3)  
 ITPRG 142 Intro to Visual Basic Programming (3)  
 ITPRG 201 Systems Design and Develop.(3)  
 ITPRG 240 Intro to Linux Operating System (3)  
 ITWEB 101 Web Page Authoring (3)  
 Select from the following:  
 ITAPP 133; ITNET 260, 270, 280; ITOFS 100; ITPRG 144, 147, 205, 242, 244, 247, 248 (7)

**Program Total: 64 credits**

## Information Technology: Programming Option

### I. General Education Core (18-19)

#### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C of better* (3)

COMM 101 Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

#### Area C: Mathematics (3 credits)

ITPRG 106 Mathematics for Computers (3)

#### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D (3-4)

#### Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

### II. Area of Concentration/Program Requirements (46)

Core Courses:

BUS 101 Introduction to Modern Business (3)

ITAPP 101 Introduction to Computers (3)

BUS 131 Financial Accounting (4)

ITPRG 299 Internship (2)

Programming Concentration Courses:

ITPRG 103 Introduction to Programming (3)

ITPRG 140 Introduction to Operating Systems (3)

ITPRG 142 Introduction to Visual Basic Programming (3)

ITPRG 144 Introduction to C++ Programming (3)

or

ITPRG 147 Introduction to JAVA Programming (3)

ITPRG 201 Systems Design and Development (3)

ITPRG 248 Introduction to COBOL Programming (3)

Select from the following:

ITAPP 133; ITOFS 100; ITPRG 144, 147, 154, 205, 242, 244, 247, 249;

ITWEB 101, 103, 201 (16)

### Program Total: 64 credits

## Information Technology: Software Applications Option

### I. General Education Core (18-19)

#### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C of better* (3)

COMM 101 Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

#### Area C: Mathematics (3 credits)

ITPRG 106 Mathematics for Computers (3)

#### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D (3-4)

#### Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

### II. Program Requirements (46)

Core Courses:

BUS 101 Introduction to Modern Business (3)

ITAPP 101 Introduction to Computers (3)

BUS 107 Bookkeeping and Procedural Accounting (3)

ITOFS 299 Internship (2)

Software Applications Concentration Courses:

ITAPP 109 Introduction to the Internet (1)

ITAPP 121 Word Processing Applications - Level 1 (3)

ITAPP 122 Word Processing Applications - Level 2 (3)

ITAPP 125 Spreadsheet Applications - Level 1 (2)

ITAPP 126 Spreadsheet Applications - Level 2 (2)

ITAPP 128 Database Applications - Level 1 (2)

ITAPP 129 Database Applications - Level 2 (2)

ITAPP 132 Desktop Publishing (3)

ITAPP 133 Presentation Applications (2)

ITAPP 240 Application Development in Database (2)

ITOFS 100 Keyboarding (1)

ITPRG 103 Introduction to Programming (3)

ITPRG 140 Introduction to Operating Systems (3)

ITPRG 142 Introduction to Visual Basic Programming (3)

Select from the following:

BUS 201; ITAPP 130, 232; ITPRG 144, 205, 242 (3)

### Program Total: 64 credits

## Information Technology: Webmaster Option

### I. General Education Core (18-19)

#### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C of better* (3)

COMM 101 Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

#### Area C: Mathematics (3 credits)

ITPRG 106 Mathematics for Computers (3)

#### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D (3-4)

#### Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

### II. Program Requirements (46)

Core Courses:

BUS 101 Introduction to Modern Business (3)

ITAPP 101 Introduction to Computers (3)

BUS 131 Financial Accounting (4)

ITWEB 299 Internship (2)

Webmaster Concentration Courses:

BUS 261 Advertising (3)

COMM 111 Introduction to Mass Communication (3)

GC 115 Introduction to Computer Art (3) (*same as ART 115*)

ITPRG 140 Introduction to Operating Systems (3)

ITPRG 157 Javascript Programming (3)

ITPRG 205 Ethics in Information Technology (2)

ITWEB 101 Web Page Authoring (3)

ITWEB 103 Introduction to Web Site Development (3)

ITWEB 105 Multimedia Writing (3)

ITWEB 201 Technology of E-Commerce (3)

ITWEB 203 Flash/Interface Design (3) (*same as GC 262*)

ITWEB 225 Web Workshop: Advanced Topics (2)

### Program Total: 64 credits

## Computer Repair Specialist

### Certificate

This program is for those individuals who want to work with computer hardware and software. This certificate provides students with skills needed as a first-level troubleshooting technician in a computer facility.

### Program Requirements

ELECT 111 Electronic Principles I (2)  
 ELECT 112 Electronic Principles II (2)  
 ITNET 160 Computer Repair (4)  
 ITPRG 140 Introduction to Operating Systems (3)  
 Select from CET 114; ITNET 250; ITWEB 101 (5)

**Program Total: 16 credits**

## Desktop Publishing

### Certificate

This program prepares students to produce professional looking publications using desktop publishing software.

### Program Requirements

ITAPP 101 Introduction to Computers (3)  
 ITAPP 121 Word Processing Applications - Level I (3)  
 ITAPP 132 Desktop Publishing (3)  
 ITAPP 133 Presentation Applications (2)  
 ITAPP 232 Advanced Desktop Publishing (3)  
 ITOFS 100 Keyboarding (1)

**Program Total: 15 credits**

## Digital Mass Communication

This program prepares students to develop digital media and web sites using computer-based technologies by writing text, designing graphics, creating animations, and incorporating sound for multimedia presentations.

### Program Requirements

BUS 261 Advertising (3)  
 COMM 111 Introduction to Mass Communication (3)  
 GC 115 Introduction to Computer Art (3) (*same as ART 115*)  
 ITWEB 103 Introduction to Web Site Development (3)  
*same as GC 162*  
 ITWEB 105 Multimedia Writing (3)  
 ITWEB 203 Flash/Interface Design (3) (*same as GC 262*)

**Program Total: 18 credits**

## E-Business

### Certificate

This certificate program includes the experiences necessary to create and maintain a successful E-business site. Topics include business, marketing, legal issues, programming, online monetary security issues, and graphic design considerations.

### Program Requirements

BUS 101 Introduction to Modern Business (3)  
 BUS 287 E-Business (3)  
 GC 162 Introduction to Web Site Development (3)  
 ITPRG 142 Introduction to Visual Basic Programming (3)  
 ITWEB 201 Technology of E-Commerce (3)

**Program Total: 15 credits**

## Game Design and Development

### Certificate

Games Design and Development is a rapidly growing field that produces a wide variety of jobs. The program offers students the ability to explore different facets of the industry, as well as other digital entertainment and educational areas. This program combines current technology skills with art, design, writing, and programming.

### Program Requirements

ENG 101 Composition I (3)  
 GC 115 or ART 115 Introduction to Computer Art (3)  
 GC 175 Animation (3)  
 ITPRG 103 Introduction to Programming (3)  
 ITPRG 142 Introduction to Visual Basic Programming (3)  
 ITPRG 144 Introduction to C++ Programming (3)  
 ITPRG 171 Game Design I (3)  
 ITPRG 173 Digital Storytelling (3)  
 ITWEB 203 Flash/Interface Design (3)

Select one of the following courses :

ITPRG 140 Introduction to Operating Systems (3)  
 ITPRG 147 Introduction to JAVA Programming (3)  
 ITPRG 205 Ethics in Information Technology (3)  
 ITWEB 205 Web Languages (3)

**Program Total: 30 credits**

## Network Security Specialist

### Certificate

This program covers the fundamentals of computer networking with an emphasis on network security, network defense, data integrity, and computer forensics. It prepares students for jobs in network administration, network security, and computer forensics. Students are prepared for a range of industry certifications.

### Program Requirements

CJ 101	Introduction to Criminal Justice (3)
ITPRG 140	Introduction to Operating Systems (3)
ITPRG 240	Linux Operating System (3)
ITNET 160	Computer Repair (4)
ITNET 165	Introduction to Networking (3)
ITNET 250	Introduction to LAN Administration (3)
ITNET 260	Network Security Fundamentals (3)
ITNET 270	Computer Forensics (3)
ITNET 280	Ethical Hacking (3)

**Program Total: 28 credits**

## Network Specialist

### Certificate

This program provides a foundation in computer networking including network planning, installation, configuration, maintenance, and troubleshooting. It includes coverage of both Microsoft and Linux operating systems. Upon completion, student may seek various industry certification credentials such as CompTIA's A+, Network +, and/or Linux+.

### Program Requirements

ITNET 160	Computer Repair (4)
ITNET 165	Introduction to Networking (3)
ITNET 250	Introduction to LAN Administration (3)
ITPRG 140	Introduction to Operating Systems (3)
ITPRG 240	Linux Operating System (3)

**Program Total: 16 credits**

## Office Assistant

### Certificate

This program prepares students to perform clerical duties for supervisors, including setting up and maintaining files, answering and placing telephone calls, compiling and maintaining reports and records, and performing office-related duties.

### Program Requirements

ITAPP 121	Word Processing Applications - Level I (3)
ITAPP 125	Spreadsheet Applications - Level I (2)
ITAPP 133	Presentation Applications (2)
ITOFS 111	Business Document Formatting (2)
ITOFS 119	Office Procedures (3)
ITOFS 122	Transcription Skills (3)
ITOFS 199	Office Assistant Practicum (1)

**Program Total: 16 credits**

## Programming

### Certificate

This program is designed for working adults who need to update their skills and knowledge of programming languages. Object-oriented and event-driven languages, as well as traditional structured languages, are included in this curriculum. Some career opportunities include Visual Basic programmer, C++ programmer, JAVA programmer, object-oriented programmer, and user interface designer.

### Program Requirements

ITPRG 103	Introduction to Programming (4)
ITPRG 142	Introduction to Visual Basic Programming (3)

Select from the following programming courses:  
ITPRG 144, 147, 201, 242, 244, 247, 248, 249 (12)

**Program Total: 19 credits**

## Software Specialist

### Certificate

This program provides students with the information and skills needed to be marketable and productive in a microcomputer environment. Career opportunities include database programmer, BASIC programmer, spreadsheet specialist, technical support coordinator, office manager, and office productivity coordinator.

### Program Requirements

BUS 107*	Bookkeeping and Procedural Accounting (3)
BUS 127	Business Communications (3)
ITAPP 101	Introduction to Computers (3)
ITAPP 109	Introduction to the Internet (1)
ITAPP 121	Word Processing Applications - Level I (3)
ITAPP 125	Spreadsheet Applications - Level 1 (2)
ITAPP 126	Spreadsheet Applications - Level 2 (2)
ITAPP 128	Database Applications - Level 1 (2)
ITAPP 129	Data Base Applications - Level 2 (2)
ITAPP 130	Software Integration and Applications (2)
ITAPP 240	Application Development in Database (2)
ITPRG 140	Introduction to Operating Systems (3)
ITPRG 142	Introduction to Visual Basic Programming (3)

\* BUS 131 - Financial Accounting will be accepted in place of BUS 107

**Program Total: 31 credits**

## Software Technician

### Certificate

This program prepares students to be a software technician for a small or large company. As an employee, this technician could install, upgrade and maintain software programs and files, as well as diagnose and troubleshoot software-related problems. Career opportunities include computer troubleshooter, software maintenance technician and DOS/Windows Specialists.

### Program Requirements

ITAPP 101 Introduction to Computers (3)  
 ITAPP 109 Introduction to the Internet (1)  
 ITPRG 140 Introduction to Operating Systems (3)

Electives:

Select from: ITNET 250; ITPRG 142, 144, 147 (3)

Select one additional IT course (2)

**Program Total: 12 credits**

## Software User

### Certificate

This program exposes students to a variety of application programs including spreadsheets, database and word processing software. Students will gain experience in operating systems (DOS and Windows), diagnostic tools and integration techniques. Some possible career opportunities include administrative assistant, secretary, office manager, and office productivity coordinator.

### Program Requirements

ITAPP 101 Introduction to Computers (3)  
 ITAPP 109 Introduction to the Internet (1)  
 ITAPP 121 Word Processing Applications - Level I (3)  
 ITAPP 125 Spreadsheet Applications - Level I (2)  
 ITAPP 128 Database Applications - Level I (2)  
 ITAPP 130 Software Integration and Application (2)  
 ITPRG 140 Introduction to Operating Systems (3)

**Program Total: 16 credits**

## Web Designer

### Certificate

This program develops Web design skills with an emphasis on graphic design and digital media, including animation.

### Program Requirements

ART 115 Introduction to Computer Art (3)  
 GC 151 Principles of Graphic Design (3)  
 GC 162 Introduction to Web Site Development (3)  
*(same as ITWEB 103)*  
 GC 262 Flash/Interface Design (3) *(same as ITWEB 203)*  
 ITWEB 101 Web Page Authoring (3)  
 ITWEB 105 Multimedia Writing (3)

**Program Total: 18 credits**

## Web Developer

### Certificate

This program is designed for students who wish to become Web developers or Web programmers. Students are offered hands-on experience in database, graphic design and Web programming using popular Web development software.

### Program Requirements

ITAPP 128 Database Applications - Level I (2)  
 ITPRG 140 Introduction to Operating Systems (3)  
 ITPRG 157 Javascript Programming (3)  
 ITWEB 101 Web Page Authoring (3)  
 ITWEB 103 Introduction to Web Site Development (3)  
 ITWEB 201 Technology of E-Commerce (3)  
 ITWEB 225 Web Workshop: Advanced Topics (2)

**Program Total: 19 credits**

## Webmaster

### Certificate

The Webmaster program is designed for students who wish to become Webmasters in small- to medium-sized companies. Students are offered hands-on experience in networking, operating systems, and Web programming.

### Program Requirements

ITNET 165 Introduction to Networking (3)  
 ITNET 250 Introduction to LAN Administration (3)  
 ITPRG 140 Introduction to Operating Systems (3)  
 ITPRG 240 Linux Operating System (3)  
 ITWEB 101 Web Page Authoring (3)  
 ITWEB 103 Introduction to Web Site Development (3)  
 ITWEB 201 Technology of E-Commerce (3)

**Program Total: 21 credits**

## Music

Music Production  
Music Technology

### Music Production

#### A.A.S. Degree

This program is designed to give students the basic practical and theoretical skills necessary to function in a variety of positions within the music industry.

#### I. GENERAL EDUCATION CORE (19)

##### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C or better* (3)  
COMM 101 Principles of Communication (3)

##### Area B: Humanities (3 credits)

MUSIC 130 Music Appreciation (3)

or

MUSIC 132 American Music (3)

##### Area C: Mathematics (3 credits)

BUS 103 Business Mathematics (3)

##### Area D: Physical and Life Sciences (4 credits)

PHYSI 101 Conceptual Physics (4)

##### Area E: Social and Behavioral Sciences (3 credits)

One course from the IAI courses listed for Area E

#### II. Program Requirements (32)

CET 101 Fundamentals of Electricity (2)  
ELECT 111 Electronic Principles I (2)  
ELECT 112 Electronic Principles II (2)  
ITPRG 140 Introduction to Operating Systems (3)  
MUSIC 100 Fundamentals of Music Theory (3)  
MUSIC 101 Musicianship I (4)  
MUSIC 172 Music in Film and Television (3)  
MUSIC 174 Computer-Assisted Music Production (4)  
MUSIC 176 Sound Recording Techniques (3)  
MUSIC 171 Digital Keyboard Techniques (2)

or

MUSIC 181 Private Lessons I (piano) and  
MUSIC 182 Private Lessons II (2) (piano)  
MUSIC 274 Digital Composition for Video (4)

#### III. Electives (9)

Select any additional courses. Recommended selections for special areas of emphasis include:

Music: MUSIC 102, 201, 202, 299

Multimedia: GC 115, 162, 185; ITNET 160, 165; ITPRG 171, 173; MUSIC 299

Marketing: BUS 101, 107, 251; GC 162; MUSIC 299

**Program Total: 60 credits**

## Music Technology

### Certificate

This program is designed to give students the basic practical and theoretical skills necessary to work as assistants and technicians in the music industry.

#### Program Requirements

CET 101 Fundamentals of Electricity (2)  
ITPRG 140 Introduction to Operating Systems (3)  
MUSIC 100 Fundamentals of Music Theory (3)  
MUSIC 130 Music Appreciation (3)  
or  
MUSIC 132 American Music (3)  
MUSIC 172 Music in Film and Television (3)  
MUSIC 174 Computer-Assisted Music Production (4)  
MUSIC 176 Sound Recording Techniques (3)  
MUSIC 181 Private Lessons I (1) (piano)  
MUSIC 274 Digital Composition for Video (4)  
MUSIC 299 Music Production Internship (2)  
PHYSI 101 Conceptual Physics (4)

**Program Total: 32 credits**

## Photography

Photographic Studies (A.A.S.)

Photography

Portrait Photography

## Photographic Studies

### A.A.S. Degree

This program is designed to provide the student with practical experience in creative and vocational applications of photography. Each student is challenged to explore their ideas through commercial, social and aesthetic visual problems. Options are available for specialization in print or studio production.

### I. General Education Core (15-16)

#### Area A: Communication (6 credits)

ENG 101 Composition I - *with a grade of C or better* (3)

COMM 101 Principles of Communication (3)

#### Area B: Humanities and Fine Arts (3 credits)

Select one course from Area B (3)

#### Area C: Mathematics (demonstrated competence required)

Placement into MATH 095 or completion of MATH 090 - *with a grade of C or better*

#### Area D: Physical and Life Sciences (3-4 credits)

Select one course from Area D (3-4)

#### Area E: Social and Behavioral Science (3 credits)

Select one course from Area E (3)

### II. Program Requirements (47)

ART 101 Two Dimensional Design (3)

ART 126 History of Photography (3)

PHOTO 171 Introduction to Black & White Photography (3)

PHOTO 174 Digital Darkroom Techniques (2)

PHOTO 175 Basic Lighting Skills (2)

PHOTO 176 Electronic Flash Techniques (2)

PHOTO 180 Photoshop I (2)

PHOTO 196 Careers in Photography (1)

PHOTO 273 Photographic Methods (3)

PHOTO 275 Photographic Design (3)

PHOTO 285 Digital Color Production (3)

PHOTO 290 Advanced Color Photography (4)

PHOTO 291 Survey of Contemporary Photography (3)

Option: Select one area of specialization from the options listed below (13)

#### Option A:

##### Print Production

Select 13 credits from

PHOTO 280 Photoshop II (2)

PHOTO 281 Digital Applications (4)

PHOTO 282 Experimental Techniques (3)

PHOTO 286 Independent Photo Project (3)

PHOTO 292 Photo Workshop: Special Topics (4)

PHOTO 297 Professional Portfolio (3)

PHOTO 298 Seminar (1)

PHOTO 299 Internship (1-3)

#### Option B:

##### Studio Production

Select 13 credits from

PHOTO 276 Commercial Techniques (4)

PHOTO 283 Portraiture (3)

PHOTO 287 Independent Photo Studio (3)

PHOTO 292 Photo Workshop: Special Topics (4)

PHOTO 293 Advanced Portraiture (4)

PHOTO 297 Professional Portfolio (3)

PHOTO 298 Seminar (1)

PHOTO 299 Internship (1-3)

**Program Total: 62-63 credits**

## Photography

### Certificate

This program builds a technical and visual foundation using photographic techniques while encouraging students to become effective communicators with their cameras.

### Program Requirements

ART 101 Two Dimensional Design (3)

PHOTO 171 Introduction to Black & White Photography (3)

PHOTO 174 Digital Darkroom Techniques (2)

PHOTO 175 Basic Lighting Skills (2)

PHOTO 176 Electronic Flash Techniques (2)

PHOTO 180 Photoshop I (2)

PHOTO 196 Careers in Photography (1)

PHOTO 273 Photographic Methods (3)

PHOTO 275 Photographic Design (3)

PHOTO 285 Digital Color Production (3)

PHOTO 290 Advanced Color Photography (4)

PHOTO 291 Survey of Contemporary Photography (3)

**Program Total: 31 credits**

## Portrait Photography

### Certificate

This program is designed to prepare students in specific photographic techniques of portrait photography. Participants gain substantial experience creating successful studio and location portraits while working in a professional studio/lab environment.

### Program Requirements

PHOTO 171 Introduction to Black & White Photography (3)

PHOTO 174 Digital Darkroom Techniques (2)

PHOTO 175 Basic Lighting Skills (2)

PHOTO 176 Electronic Flash Techniques (2)

PHOTO 180 Photoshop I (2)

PHOTO 283 Portraiture (3)

PHOTO 285 Digital Color Production (3)

PHOTO 293 Advanced Portraiture (4)

PHOTO 297 Professional Portfolio (3)\*

**Program Total: 24 credits**

*Note: Students must take the first four courses in sequence, or enroll in two consecutively numbered courses in the same semester. Students must earn a grade of B or better in PHOTO 171 or a score of 80% or better on a proficiency exam with portfolio review.*

*\* PHOTO 298 and 299 (3 credits total) will be accepted in place of PHOTO 297.*



## CAREER Cooperative Program

Prairie State College is a partner in CAREER (Comprehensive Agreement Regarding the Expansion of Educational Resources) Cooperative with the community colleges listed below. If PSC does not offer a particular degree or certificate program, residents of PSC District 515 may apply for a Cooperative Agreement. Upon approval, residents can enroll at any of these colleges. If accepted into the desired program they will be charged the in-district tuition rate at these partner colleges.

Applications must be received at PSC 30 days prior to the beginning of the semester at the college the student will be attending. Developmental course work (courses below 100 level) and required prerequisites must be completed at PSC.

A 2.0 grade point average must be maintained at PSC before a cooperative agreement will be approved. Individual courses are not eligible for cooperative agreements nor are programs that are generally considered to be baccalaureate oriented. In addition, repeated courses are not covered under these agreements.

Courses taken which are not part of the approved program will not be honored for the cooperative agreement. That is, the entire out-of-district tuition for such courses must be borne by the student. Students who change to programs of study outside of these existing agreements will be billed at out-of-state tuition for all course work. Community colleges often have comparable programs. Cooperative agreements are granted at the discretion of PSC and will not be granted for comparable programs.

For more information about specific programs, contact the college where the program is offered. For more information about the CAREER application process, call the Counseling and Academic Advising Center at (708) 709-3506.

### Community Colleges Part of a CAREER Cooperative Program

- Black Hawk College
- Carl Sandburg College
- Danville Area Community College
- Elgin Community College
- Heartland Community College
- Highland Community College
- Illinois Central College
- Illinois Valley Community College
- John Wood Community College
- Joliet Junior College
- Kankakee Community College
- Kaskaskia College
- Kishwaukee College
- Lake Land College
- Lewis and Clark Community College
- Lincoln Land Community College
- McHenry County College
- Morton College

- Moraine Valley Community College
- Prairie State College
- Richland Community College
- Rock Valley College
- Sauk Valley Community College
- South Suburban College
- Spoon River College
- Waubesa Community College

## Tech Prep College Credit for High School Students

Just as Advanced Placement (AP) courses provide a way to earn college credit in subjects such as English, History, and the Sciences, Tech Prep is a national program that grants college credit in career and technical disciplines. Its purpose is to prepare any student to enter and succeed in a career as well as further his or her education beyond high school.

Depending on the courses offered at the particular high school and the articulation (dual-credit) agreements made with PSC, Tech Prep courses include (but are not limited to) the following subjects: Business, Child Development, Industrial Technology (Automotive Technology, Welding, and more), and Information Technology. If you are a high school student, contact your school's guidance office or career administrator for more information. High school career administrators work with the Career Preparation Network, the consortium that coordinates Tech Prep programs in PSC's District 515:

Career Preparation Network  
 Tom Hysell, Director  
 Prairie State College - ATOC  
 202 South Halsted Street  
 Chicago Heights, IL 60411  
 phone (708) 709-7905  
 fax (708) 709-7904  
 e-mail: [thysell@yahoo.com](mailto:thysell@yahoo.com)