

GRADUATION AND TRANSFERRING



Perhaps your time at Prairie State College has numbered a few months while you earn a certificate to boost your earnings potential. Or, you might be among the many who have worked for years toward an associates degree while juggling other responsibilities.

Whatever you have accomplished, we are pleased and proud to have been part of your educational journey. We wish you well with your next step, whether it is on your career path or on the path toward a bachelor's degree or graduate school.

Graduation

As outlined in the opening Overview section, Prairie State College grants certificates and the following six associates degrees:

- Associate in Arts (A.A.)
- Associate in Science (A.S.)
- Associate in Fine Arts (A.F.A.)
- Associate of Arts in Teaching (A.A.T.)
- Associate in Applied Science (A.A.S.; career and technical degree)
- Associate in General Studies (A.G.S.; not intended for career program or a bachelor's degree)

Specific curriculum requirements for a particular degree or certificate program are found in Degrees, Certificates, Courses. Consult that section of the catalog and the index for detailed information. The next section gives an overview of graduation requirements.

Graduation Requirements

To earn a degree or certificate, you must complete the academic requirements shown in the catalog for the year in which you entered PSC. If the degree or certificate requirements are changed during your attendance, you may elect to satisfy either the new requirement or the ones in force when you enrolled. If you withdraw from PSC for either a fall or spring semester, you must satisfy requirements in force at the time you re-enroll.

When submitting a graduation petition, you will be asked to identify the year of the catalog from which you are graduating. Any petition to modify graduation requirements must be submitted in writing on a Course Substitution Form—available from the dean over the academic program—at least one semester prior to graduation. Graduation petitions must be submitted to Enrollment Services no later than the following dates:

Fall graduation: October 1

Spring graduation: March 1

Summer graduation: July 1

Graduation petitions submitted after these deadlines will be subject to an additional charge.

December, May, and August candidates may choose to participate in the annual May Commencement ceremony (see following section, “Commencement Ceremony”).

Students planning to receive a degree and/or certificate at PSC must request an official evaluation of their credits in Enrollment Services, by completing the “Transcript Evaluation Request Form” at least one or two semesters prior to degree and/or certificate completion in order to ensure correct course selections. The form is also available on the college website and may be printed and mailed to Enrollment Services at the main campus address or completed online.

Commencement Ceremony

A commencement (graduation) ceremony is held once a year, at the end of the spring semester in May. Graduates from the previous fall, current spring, and forthcoming summer terms are invited to participate.

Note: This is the only ceremony held all year, though you may be certified as a graduate at the end of any semester of the academic year. The deadline to apply for the ceremony is March 1, no matter which semester you actually fulfill the requirements for graduation.

For each degree application, a fee of \$20 will be charged upon petitioning for graduation (this includes the cost of a degree diploma); there is no additional fee to participate in the ceremony. Students who earn a certificate will have that information posted to their college transcript free of charge; however, if a certificate recipient wishes to participate in the graduation ceremonies and therefore receive a diploma, a fee of \$20 will be charged for each diploma.

For more information on academic honors, see Grading and Other Academic Policies within the section policies and Guidelines. For information on the ceremony, please call the Office of the Vice President of Student Affairs at (708) 709-3507.

Transferring to Other Colleges

If you wish to transfer from Prairie State College to another college, you must follow the admissions procedure for the institution you wish to attend. No matter what transfer hopes and plans you might have, recognize that each college or university has its own unique policies, selection process, and admissions requirements.

It is the responsibility of students to be familiar with transfer policies at other institutions. Visit the website or obtain a catalog and application packet from the schools you are interested in attending. The PSC Counseling and Academic Advising Center can assist you in the transfer process. Contact the Transfer Coordinator at (708) 709-3508, or talk with any of PSC's advisors and counselors for more information.

A transfer student agreement (commonly called the Compact Agreement) is established with a number of public universities in Illinois. This compact states that a transfer student who has completed an associates degree based on a baccalaureate-oriented sequence is considered to have attained junior standing and to have met lower-division general educational requirements.

Illinois Articulation Initiative (IAI)

PSC is part of the Illinois Articulation Initiative, a statewide agreement allowing transfer of the completed Illinois Transferable General Education Core Curriculum (IAI GECC) between participating institutions. Completion of the transferable IAI GECC at any participating college or university in Illinois ensures transferring students that lower-division general education requirements for an associates or bachelor's degree have been satisfied.

Here is good advice on transferring—one of many resources and tips found on the IAI website (www.itransfer.org):

1. Even though the Illinois Articulation Initiative (IAI) agreements and website are meant to make transfer smoother, you still need to see an academic advisor or admissions counselor.
2. To transfer as a junior, you need a minimum of 60 (and usually not more than 64) semester credits. Plan to earn an associates degree before transferring: at PSC, we offer Associate in Arts, Associate in Science, Associate in Fine Arts, and Associate of Arts in Teaching.
3. If you already know where you will transfer, see that school's catalog and a counselor for specific advice.
4. Every participating school does not offer all majors or all specialties in a major.
5. No two majors are alike; courses in one major are unlikely to meet requirements for a different major. Changing your major will likely increase the time needed to complete your degree.
6. Be sure to check to see if any specific Illinois Transferable General Education Core Curriculum (IAI GECC) courses are recommended by your major. A few majors, like music and engineering, suggest you not finish the IAI GECC before transferring.
7. Most majors require at least a "C" for a course to count towards major requirements, and most schools will not accept pass/fail.
8. Since admission is often competitive, completing the IAI Majors' recommended courses will not by itself guarantee admission.
9. Some majors require assessment for admission: a Test of Academic Proficiency (reading, grammar, writing, and math) is required for certification in all teacher education majors. Most music schools require an audition and most art schools require a portfolio.
10. When selecting courses for your major, always seek advice from an academic advisor at your current school and a counselor at the transfer school. More information on IAI and transferring is found in Degrees, Certificates, Courses. Consult that section and the Index.

Transcripts

Enrollment Services issues official transcripts; a nominal fee is charged for each transcript. For more information on how to order transcripts, visit prairiestate.edu.

DEGREES AND CERTIFICATES



Academic Degrees and Certificates

Prairie State College offers associate degrees that prepare students for transfer to four-year institutions, associate degrees and certificates that prepare students for specific careers, and an associate 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

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 are undecided on the college or university that will grant their bachelor's 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 bachelor's 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 PSC 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 PSC 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 degree and the bachelor's degree.
10. The IAI identifies courses which will apply to specific majors. PSC 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 98 schools in Illinois that are currently recognized by IAI as full-participating schools, and 14 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-Champaign
- Western Illinois University

Four-Year Independent Institutions

- American InterContinental University [R]
- Argosy University [R]
- Aurora University
- Benedictine University
- Blackburn College
- Bradley University
- Concordia University - Chicago
- DePaul University
- DeVry University
- Dominican University
- East-West University [R]
- Elmhurst College
- Eureka College [R]
- Illinois College
- Illinois Institute of Art
- Illinois Institute of Technology [R]
- ITT Technical Institute [R]
- Judson University
- Kendall College
- Knox College [R]
- Lake Forest College [R]
- Lewis University
- Lexington College
- Lincoln Christian University
- Lincoln College
- Loyola University Chicago [R]
- MacMurray College
- McKendree College
- Midstate College
- Millikin University
- National Louis University
- North Central College
- North Park University
- Northwestern Business College [R]

- Olivet Nazarene University
- Quincy University
- Resurrection University [R]
- Robert Morris University
- Rockford College
- Roosevelt University
- Saint Xavier University
- Solex College [R]
- St. Augustine College
- The College of Office Technology [R]
- Trinity Christian College
- Trinity International University
- University of St. Francis

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.

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. 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
- D** for courses designed to examine aspects of human diversity within the U.S.

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. 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 the Transferable General Education Core Curriculum of 37-41 credits. Candidates for the A.A.T. must complete 64 semester hours of college credit as specified, including the Transferable General Education Core Curriculum of 39-40 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, ENG101 Composition I and ENG102 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 ENG101

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]

THTR 101 [F1 907] Understanding Theatre (3)

Humanities Courses

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.

History [IAI Code]

HIST 240 [H2 909D] African American History (3)

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)

PHILO 206 [H4 902] Major Modern Ideas (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 107	[LI 903] Microbes and Society (3)
BIOL 111	[BIO 910] Cellular and Molecular Biology (4)
BIOL 112	[LI 900L] Organismal Biology (4)*

*These courses are recommended for science majors to meet general education science requirements. Students cannot receive credit for both BIOL 100 and 112. BIOL 111 may be used to fulfill the general education life science requirement per IAI guideline that "Students with appropriate preparation may substitute an initial course designed for science majors for a more general course," per itransfer.org.

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 recommended for 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	[PI 905L] Earth Science (4)
PHYSI 101	[PI 901L] Conceptual Physics (4)
PHYSI 105	[PI 901] Physics and Society (3)
PHYSI 120	[PI 900L] College Physics I (4)*
PHYSI 210	[P2 900L] University Physics I (4)

*This course is recommended for science majors to meet general education science requirements. Student cannot receive credit for both PHYSI 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)

Some universities require a U.S. diversity and a non-Western Cultures course within their general education requirements. It is recommended that you take one course with an IAI code ending in D and one with a code ending in N when choosing your Area B and E courses.

II. Area of Concentration/Major Field

A.A./A.S.: 6-25 credit hours

A.F.A.: 21 credit hours

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

The Associate in Fine Arts (A.F.A.) Degree requires 21 credits from a select list. The Associate of Arts in Teaching requires 25-26 credits from a select list. The Associate of Arts and Associate in Science degrees recommend 6-25 credits 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 following this section. Depending upon the chosen course of study, additional credit hours may be recommended in the area of concentration, reducing the elective courses. Students should always consult the university of their choice to confirm requirements and transferability of their courses.

III. Electives (0-19 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 0-19 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 and community service courses cannot be used to satisfy degree requirements in the A.F.A. or A.A./A.S. degree. For the A.A./A.S. degree, students may use one vocational/technical course (four credits or less) that is not on the approved list if they present documentation (recent written correspondence or transfer/ advising guide) that the receiving institution will accept the course for credit. If a student plans to use more than one such course, he/she must obtain approval from the Vice President of Academic Affairs. Some universities have a foreign language requirement. Generally, four years of a single foreign language in high school or four semesters of single foreign language in college will fulfill this requirement. It is recommended that students complete the entire sequence at one institution. 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.

Courses Approved for Transfer

The following courses are approved for transfer. It is recommended that students consult with the university of their choice to confirm requirements and transferability of courses:

ANTHR 215	[SI 900N] Introduction To Anthropology (3)
ANTHR 222	[SI 901N] Introduction To Cultural & Social Anthropology (3)
ART 101	Two Dimensional Design (3)
ART 102	Three Dimensional Design (3)
ART 104	[ART 904] Drawing I (3)
ART 106	Drawing II (3)
ART 109	Ceramics (3)
ART 115	Introduction To Computer Art (3)
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)
ART 131	[F2 903N] Survey Of Non-Western Art (3)
ART 162	Life Drawing (3)
ART 201	Painting I (3)
ART 202	Painting II (3)
ART 205	Printmaking (3)
ART 246	Independent Study (3)
ART 295	Portfolio Seminar (3)
ASTRO 101	[PI 906] Guide To The Universe (3)
ASTRO 104	[PI 906L] The Solar System And Beyond (4)
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 107	[LI 903] Microbes And Society (3)
BIOL 108	Essentials Of Anatomy & Physiology (4)
BIOL 111	[BIO 910] Cellular And Molecular Biology (4)
BIOL 112	[LI 900L; BIO 910] Organismal Biology (4)
BIOL 120	Independent Studies In Ecology (3)
BIOL 211	Microbiology (4)
BIOL 221	Human Anatomy & Physiology I (4)
BIOL 222	Human Anatomy & Physiology II (4)
BIOL 252	Molecular Genetics (3)
BUS 101	Introduction To Modern Business (3)
BUS 131	[BUS 903] Financial Accounting (4)
BUS 132	[BUS 904] Managerial Accounting (3)
BUS 201	Business Law (3)
BUS 210	Business Law And Its Environment (3)
BUS 240	[BUS 901; M1 902] Elementary Statistics (4)
BUS 241	Principles Of Management (3)
BUS 242	Human Resources Management (3)
BUS 251	Principles Of Marketing (3)
BUS 261	[MC 912] Advertising (3)
CADMD 243	[IND 911] Introduction To Autocad (3)
CADMD 245	[EGR 941] Computer Aided Design (3)
CHEM 105	[PI 902L] Survey Of General Chemistry (4)
CHEM 110	[CHM 911; PI 902L] 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)	GEOG 101	[S4 900N] Cultural Geography (3)
CJ 101	[CRJ 901] Introduction To Criminal Justice (3)	GEOG 105	[PI 909] Intro To Physical Geography (3)
CJ 102	[CRJ 912] Introduction To Criminology (3)	GEOLO 101	[PI 907L] Physical Geology (4)
CJ 106	[CRJ 911] Introduction To Corrections (3)	GEOLO 201	Earth Science Research (1-2)
CJ 201	Introduction To Criminal Law (3)	HIST 111	[S2 912N] World History: Origins To 1714 (3)
CJ 204	[CRJ914] Juvenile Justice (3)	HIST 112	[S2 913N] World History: 1714 To Present (3)
CJ 207	Street Law: Understanding Law and Legal Issues (3)	HIST 115	[S2 906N] African Civilizations I (3)
COL 100	Computer Skills For College Writing (1)	HIST 116	[S2 907N] African Civilizations II (3)
COL 101	First Year Seminar (1)	HIST 140	[S2 910N] History Of Latin America (3)
COL 102	Career Development Seminar (1)	HIST 151	[S2 902] History Of Western Civilization I (3)
COL 105	Personal Awareness (1)	HIST 152	[S2 903] History Of Western Civilization II (3)
COL 106	Personal Wellness (1)	HIST 201	[S2 900] U.S. History: 1492 To 1877 (3)
COL 107	More Brothers & Scholars (1)	HIST 202	[S2 901] U.S. History: 1877 To Present (3)
COMM 101	[C2 900] Principles Of Communication (3)	HIST 240	[H2 909D] African American History (3)
COMM 102	Persuasive Public Speaking (3)	HLTH 101	Health And Wellness (2)
COMM 103	Group Discussion (3)	HUMAN 101	[H5 904N] Comparative Religions (3)
COMM 108	Interpersonal Communication (3)	HUMAN 102	[H5 901] Foundational Religious Texts (3)
COMM 111	[MC 911] Introduction To Mass Communication (3)	HUMAN 201	[H9 900] Humanities Themes: Myth, Reason & God (3)
COMM 115	[MC 914] Introduction To Broadcasting (3)	HUMAN 202	[HF 900] Form And Structure In The Arts (3)
COMM 196	Applied Forensics I (1)	ITAPP 100	Basic Computing Skills (1)
COMM 197	Applied Forensics II (1)	ITAPP 101	[BUS 902] Introduction To Computers (3)
COMM 198	Applied Forensics III (1)	ITPRG 142	Visual Basic Programming I (3)
COMM 199	Applied Forensics IV (1)	ITPRG 144	C++ Programming I (3)
ECED 103	Health, Safety, and Nutrition (3)	ITPRG 147	[CS 911] Java Programming I (3)
ECED 104	Introduction to Early Childhood Education (3)	ITPRG 242	Visual Basic Programming II (3)
ECED 201	Sign Language I (3)	ITPRG 244	[CS 912] C++ Programming II (3)
ECED 202	Sign Language II (3)	ITPRG 247	Java Programming II (3)
ECON 201	[S3 901] Macroeconomic Principles (3)	ITWEB 105	Multimedia Writing (3)
ECON 202	[S3 902] Microeconomic Principles (3)	JRNLM 101	[MC 919] Introduction To Journalism (3)
ED 100	Foundations Amer. Public Education (3)	LIB 101	Foundations of Information (1)
ED 101	Child Growth And Development (3)	MATH 112	[M1 904] General Education Mathematics (3)
ED 212	Exceptional Child (3)	MATH 115	[M1 902] General Education Statistics (3)
ED 220	Children's Literature (3)	MATH 151	College Algebra (4)
ENG 101	[CI 900] Composition I (3)	MATH 153	[M1 902] Probability And Statistics (4)
ENG 102	[CI 901R] Composition II (3)	MATH 155	[M1 906] Finite Mathematics (4)
ENG 110	Creative Writing: Poetry (3)	MATH 157	[M1 900-B] Calculus For Business & Social Science (4)
ENG 111	Creative Writing: Nonfiction Prose (3)	MATH 165	Pre-Calculus (5)
ENG 211	[H3 914] American Literature I (3)	MATH 171	[M1 900-1; MTH 901] Calculus With Analytic Geometry I (5)
ENG 212	[H3 915] American Literature II (3)	MATH 172	[M1 900-2; MTH 902] Calculus With Analytic Geometry II (5)
ENG 215	[H3 910D] African-American Literature (3)	MATH 173	[M1 900-3; MTH 903] Calculus With Analytic Geometry III (5)
ENG 220	Children's Literature (3)	MATH 200	Math For Elementary Teaching I (4)
ENG 221	[H3 903] Introduction To Poetry (3)	MATH 201	Engineering Computer Programming (3)
ENG 231	[H3 912] British Literature I (3)	MATH 206	[M1 903] Math For Elementary Teaching II (4)
ENG 232	[H3 913] British Literature II (3)	MATH 210	[CS 915; M1 905] Discrete Mathematics (3)
ENG 240	[H3 901] Introduction To Fiction (3)	MATH 216	[MTH 912] Differential Equations (3)
ENG 243	[H3 908N] Non-Western Literature In English (3)	MATH 220	Linear Algebra (3)
ENG 252	[H3 902] Introduction To Drama (3)	METEO 150	[PI 905] Introduction To Meteorology (3)
ENG 256	[HF 908] Film And Literature (3)	MUSIC 100	Fundamentals Of Music Theory (3)
ENG 261	[H3 906] Western/World Literature I (3)	MUSIC 101	Musicianship I (4)
ENG 262	[H3 907] Western/World Literature II (3)	MUSIC 102	Musicianship II (4)
ENG 271	[H3 905] Introduction To Shakespeare (3)	MUSIC 110	Concert Choir (1)
ENGR 210	[EGR 942] Engineering Statics (3)	MUSIC 115	Orchestral String Ensemble (1)
ENGR 211	[EGR 943] Engineering Dynamics (3)		
GC 115	Introduction To Computer Art (3)		
GC 151	Principles of Graphic Design (3)		
GC 162	Introduction to Web Site Development (3)		
GC 175	2D Animation (3)		

MUSIC 120	Wind Ensemble (1)	PHOTO 291	Survey Of Contemporary Photography (3)
MUSIC 125	Latin Music Ensemble (1)	PHYS 111	[P9 900L] Physical Science (4)
MUSIC 130	[F1900] Music Appreciation (3)	PHYS 112	[P1 905L] Earth Science (4)
MUSIC 132	[F1904] American Music (3)	PHYSI 101	[P1 901L] Conceptual Physics (4)
MUSIC 143	Class Voice I (2)	PHYSI 105	[P1 901] Physics And Society (3)
MUSIC 144	Class Voice II (2)	PHYSI 120	[P1 900L] College Physics I (4)
MUSIC 152	Jazz Ensemble I (1)	PHYSI 130	College Physics II (4)
MUSIC 153	Jazz Ensemble II (1)	PHYSI 210	[P2 900L; PHY911] University Physics I (4)
MUSIC 162	Vocal Jazz Ensemble I (1)	PHYSI 220	[PHY 912] University Physics II (4)
MUSIC 163	Vocal Jazz Ensemble II (1)	PHYSI 230	[PHY 914] University Physics III (4)
MUSIC 171	Fundamentals Of Music Production (2)	POLSC 101	[S5 903] Principles Of Political Science (3)
MUSIC 181	Private Lessons I (1)	POLSC 140	[S5 900] Intro To U.S. Government & Politics (3)
MUSIC 182	Private Lessons II (1)	POLSC 152	[S5 902] U.S., State And Local Government (3)
MUSIC 191	Private Applied Music I (2)	POLSC 230	[S5 905] Intro.To Comparative Government (3)
MUSIC 192	Private Applied Music II (2)	POLSC 240	[S5 904] Intro.To International Relations (3)
MUSIC 201	Musicianship III (4)	POLSC 250	[PLS 913] Introduction To Political Philosophy (3)
MUSIC 202	Musicianship IV (4)	PSYCH 101	[S6 900] Introduction To Psychology (3)
MUSIC 252	Jazz Ensemble III (1)	PSYCH 102	[S6 902] Human Growth & Development: Life-Span (3)
MUSIC 253	Jazz Ensemble IV (1)	PSYCH 202	Educational Psychology (3)
MUSIC 262	Vocal Jazz Ensemble III (1)	PSYCH 203	[PSY 905] Abnormal Psychology (3)
MUSIC 263	Vocal Jazz Ensemble IV (1)	PSYCH 204	Industrial/Organizational Psychology (3)
MUSIC 281	Private Lessons III (1)	PSYCH 212	Theories Of Personality (3)
MUSIC 282	Private Lessons IV (1)	PSYCH 215	[S8 900] Social Psychology (3)
MUSIC 291	Private Applied Music III (2)	PSYCH 217	Human Sexuality (3)
MUSIC 292	Private Applied Music IV (2)	SOCIO 101	[S7 900] Introduction To Sociology (3)
PE 101	Physical Fitness I (1)	SOCIO 111	[S7 901] Contemporary Social Issues (3)
PE 102	Physical Fitness II (1)	SOCIO 201	Introduction To Social Work (3)
PE 103	Physical Fitness III (1)	SOCIO 210	[S7 902] Marriage And The Family (3)
PE 104	Physical Fitness IV (1)	SOCIO 215	[S7 904D] Sex, Gender And Power (3)
PE 105	Aerobics I (1)	SOCIO 220	[S7 903D] Race Rel:A Multicultural Perspective (3)
PE 106	Aerobics II (1)	SOCSC 105	African American Masculine Identity (3)
PE 107	Aerobics III (1)	SPAN 101	Spanish I (4)
PE 108	Aerobics IV (1)	SPAN 102	Spanish II (4)
PE 151	Basketball (1)	SPAN 120	Latin American Culture & Civilization (3)
PE 161	Soccer (1)	SPAN 201	Spanish III (4)
PE 162	Volleyball (1)	SPAN 202	[H1 900] Spanish IV (4)
PE 163	Golf (1)	SWK 201	Introduction To Social Work (3)
PE 164	Tennis (1)	THTRE 101	[F1 907] Understanding Theatre (3)
PE 165	Softball (1)	THTRE 111	[TA 914] Fundamentals Of Acting (3)
PES 200	Officiating Sports (3)		
PES 201	Introduction To Physical Education (2)		
PES 202	Cultural Dance I (2)		
PES 215	Group Fitness Instructor Training (3)		
PES 220	Fitness Assess./Exercise Prog Dsgn I (3)		
PES 225	Weight Training:Theory/Applicat. (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 265	Physiology Of Exercise (3)		
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)		
PHILO 206	[H4 902] Major Modern Ideas (3)		
PHOTO 171	Introduction to Photography (3)		

Areas of Concentration

A suggested curriculum of study is proposed for each transfer degree area based on PSC degree requirements and IAI majors panels.

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.)
 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: Elementary Education (A.A.)
 Education: Associate of Arts in Teaching:
 Secondary Mathematics (A.A.T.)
 Education: Secondary Education (A.A.)
 Engineering (A.S.)
 English/Literature (A.A.)
 General Math/Science (A.S.)
 Geology (A.S.)
 History (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.)
 Physical Education (A.A.)
 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.)

Art

Associate in Fine Arts: Art

A.F.A. Degree • Required 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, with the PSC Counseling and Academic Advising Center, and with the university where they expect to transfer for information regarding the most appropriate courses to take while at PSC.

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 (6 credits)

Select two IAI humanities courses from the list for Area B

Area C: Mathematics (3 credits)

Select one math course from the list for Area C.

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 Photography (3)

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

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 bachelor's 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 university has its own transfer policies; we cannot guarantee the accuracy of this information in regard to every individual school.

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 the list for Area C.

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)

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 bachelor's 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 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 either the Test of Academic Proficiency have a composite ACT plus writing score of 22, or an SAT of 1030 in order to gain admission into a college of Education.

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 121 [F2 901] History of Western Art I (3)
 ART 122 [F2 902] History of Western Art II (3)

Select one English course numbered 200 or above from the list for Area B. ENG 243 recommended to meet the non-Western Cultures requirement at some senior institutions.

Area C: Mathematics (3 credits)

Select one math course from the list for Area C.

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 & 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 162 Life Drawing (3)
 ART 201 Painting I (3)
 ART 202 Painting II (3)
 ART 205 Printmaking (3)
 GC 151 Principles of Graphic Design (3)
 PHOTO 171 Introduction to Photography (3)

III. Electives (3-10)

Select from the following teacher education electives: ED 100, 101, 212 (3)
 Additional non-Western course from: ART 131, GEOG 101, HIST 111, 112, 115, 116, 140; HUMAN 101, or PHILO 205 (3)

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 contact the universities you are considering.

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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. Bachelor's 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)

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

III. Electives (2)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

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

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Business

A.A. Degree • Suggested Curriculum

Business programs at community colleges and universities 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 university.

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 900-1] 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)

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)

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 201 Business Law (3)

or

BUS 210 Business Law and Its Environment (3)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Special note: Courses such as Principles of Management and Principles of Marketing 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

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Chemistry

A.S. Degree • Suggested Curriculum

The chemist is concerned with the application of scientific principles to practical problems. Employment opportunities for chemists include 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 900-1] 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 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)

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)

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

PHYSI 220 [PHY 912] University Physics II (4)

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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. Bachelor's 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 [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.

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

BIOL 111 Cellular and Molecular Biology (4) *recommended*

CHEM 130 General Chemistry II (5) *recommended*

CHEM 203 Organic Chemistry I (5)

CHEM 204 Organic Chemistry II (5)

Select two biology courses from the following:

BIOL 211 Microbiology (4)

BIOL 221 Human Anatomy & Physiology I (4)

BIOL 222 Human Anatomy & Physiology II (4)

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Computer Science- Information Technology 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 900-1] Calculus with Analytic Geometry I (5)
MATH 210 [M1 905; CS 915] Discrete Mathematics (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.

PHYSI 210 [P2 900L] University Physics I (4) recommended if you are considering the technical track

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)

II. Area of Concentration/Major Field (9)

MATH 210 [CS 915] Discrete Mathematics (3) if not taken to satisfy Area C

Select one programming language sequence from the following*:

ITPRG 142 Visual Basic Programming I (3)

and ITPRG 242 Visual Basic Programming II (3)

or

ITPRG 144 C++ Programming I (3)

and ITPRG 244 [CS 912] C++ Programming II (3)

or

ITPRG 147 [CS 911] JAVA Programming I (3)

and ITPRG 247 JAVA Programming II (3)

** It is strongly recommended (and may be required at some universities) that both programming courses are in the same language and are taken at the same school before transfer. Consult the university that you are considering, since different schools have different requirements. Students will need to demonstrate mastery of the language used by that institution.*

III. Electives (13-15)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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. Universities 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.

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 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)

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)

II. Area of Concentration/Major Field (6)

Select one programming language sequence from the following:*

ITPRG 142 Visual Basic Programming I (3)

and ITPRG 242 Visual Basic Programming II (3)

or

ITPRG 144 C++ Programming I (3)

and ITPRG 244 [CS 912] C++ Programming II (3)

or

ITPRG 147 [CS 911] JAVA Programming I (3)

and ITPRG 247 JAVA Programming II (3)

* It is strongly recommended (and may be required at some senior institutions) that both programming courses are in the same language and be taken at the same school before transfer. Consult the senior institution that you are considering, since different schools have different requirements. Students will need to demonstrate mastery of the language used by that institution.

III. Electives (18-19)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Criminal Justice

A.A. Degree • Suggested Curriculum

This curriculum is designed for students pursuing bachelor's 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 the list for Area C:

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 including:

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

III. Electives (12-13)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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)

Select one math course from the list for Area C. Select the appropriate math course for the baccalaureate major you plan to pursue.

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.

II. Area of Concentration/Major Field (21)

BIOL 111 Cellular and Molecular Biology (4)
 CHEM 130 General Chemistry II (5)
 CHEM 203 Organic Chemistry I (5)
 PHYSI 120 College Physics I (4)
 PHYSI 130 College Physics II (4)

III. Electives (0)

Select courses from the bachelor's degree major you plan to pursue or the courses listed below, which are less commonly required pre-Dentistry courses. Check with the university you plan to attend.

BIOL 211 Microbiology (4)
 BIOL 221 Human Anatomy and Physiology I (4)
 BIOL 222 Human Anatomy and Physiology II (4)
 CHEM 204 Organic Chemistry II (5)
 MATH 153 Probability and Statistics (4)

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 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 either the Test of Academic Proficiency have a composite ACT plus writing score of 22, or an SAT of 1030 in order to gain admission into a College of Education.

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. ART 131, ENG 243, HUMAN 101, or PHILO 205 recommended to meet the non-Western Cultures requirement by some senior institutions.

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. It is recommended that both courses have a lab for the Illinois teaching certificate.

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 101 Child Growth and Development (3)
 ECED 104 Introduction to Early Childhood Education (3)*
 ED 212 Exceptional Child (3)

III. Electives (11-12)

ECED 103 Health, Safety and Nutrition (3)* recommended
or HLTH 101 Health and Wellness (2)
 PSYCH 202 Educational Psychology (3)
 Additional Humanities course (3)
 Additional Science course (4)
 Select one non-Western Cultures course: ART 131; ENG 243;
 GEOG 101; HUMAN 101; HIST 111, 112, 115, 116, 140; or
 PHILO 205 (3)

*Note: Before enrolling in any additional courses with an ECED 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

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Education - Elementary Education

A.A. Degree • Suggested Curriculum

This curriculum suggests courses likely to apply to a major in Elementary 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 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 either the Test of Academic Proficiency, have a composite ACT plus Writing score of 22, or an SAT score of 1,030 in order to gain admission into a College of Education. 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) **

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. ART 131, ENG 243, HUMAN 101, or PHILO 205 recommended to meet the non-Western Cultures requirement at some senior institutions.

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. It is recommended that both courses have a lab for the Illinois teaching certificate.

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)

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

III. Electives (10-11)

ECED 103 Health, Safety and Nutrition (3)
or HLTH 101 Health and Wellness (2)
PSYCH 202 Educational Psychology (3)
Additional science course (4)

One academic discipline course, in the subject in which you plan to seek endorsement, selected in consultation with an 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, 240; HUMAN 101; PHILO 205; SOCIO 215, 220

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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* [M1 900-1] 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.

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)

PSYCH 102 Human Growth and Development: Life Span (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 course from

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

ED 212 Exceptional Child (3)

PSYCH 202 Educational Psychology (3)

** 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.T. Degree Program Total: 64 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Education - Secondary Education

A.A. Degree • Suggested Curriculum

This curriculum suggests courses likely to apply to a major in Secondary 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 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 either the Test of Academic Proficiency, have a composite ACT plus Writing score of 22, or an SAT score of 1,030 in order to become certified to teach in Illinois. Students should consult their advisor and an advisor at the university early and often.

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 humanities and one course from fine arts, including one English course numbered 200 or above. ART 131, ENG 243, HUMAN 101, or PHILO 205 recommended to meet the non-Western Cultures requirement at some senior institutions.

Area C: Mathematics (3-5 credits)

Select one math course from the list for Area C. Select the course that satisfies the math requirement in your teaching major.

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. It is recommended that both courses have a lab for the Illinois teaching certificate.

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 (18)

Select four courses from the bachelor's degree major or subject you wish to teach.

ED 100	Foundations of American Public Education (3)
ED 212	Exceptional Child (3)

III. Electives (6-7)

PSYCH 102	Human Growth and Development: Life Span (3)
PSYCH 212	Educational Psychology (3)

***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, 240; HUMAN 101; PHILO 205; SOCIO 215, 220*

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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. PSC 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 900-1] Calculus with Analytic Geometry I (5)
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Area D: Physical and Life Sciences (7-8 credits)

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

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

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

Essential Engineering prerequisite courses:

CHEM 110	[CHM 911] General Chemistry I (5)
MATH 172	[MTH 902] Calculus with Analytic Geometry II (5)
MATH 173	[MTH 903] Calculus with Analytic Geometry III (5)
MATH 216	[MTH 912] Differential Equations (3)
PHYSI 220	[PHY 912] University Physics II (4)

Suggested IAI courses for Chemical Engineering:

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

Suggested IAI courses for Civil, Industrial, and Mechanical Engineering:

CADMD 245	[EGR 941] Computer Aided Design (3)
ENGR 210	[EGR 942] Engineering Statics (3)
ENGR 211	[EGR 943] Engineering Dynamics (3)

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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. It is recommended that students satisfy the Humanities and Fine Arts requirement with courses other than the English major recommendations listed below. Students may choose to take other literature courses or any other general education Humanities and Fine Arts course.

Area C: Mathematics (3 credits)

Select one math course from the list for Area C.

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)

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

III. Electives (15-16)

ENG 212 [H3 915] American Literature II (3)
 Competency in a single Foreign Language through the third or fourth semester of college or three or four years in high school is recommended.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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)

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 (21)

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)

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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)

GEOL 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)

Check with the university 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)*

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)

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

History

A.A. Degree • Suggested Curriculum

This transfer program is designed for students pursuing a bachelor's 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 university. 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 the list for Area C.

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)

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)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Competency through the fourth semester or four years in high school of a single foreign language is required for the B.A. degree in History in some universities, and for all majors in the College of Arts and Sciences at many universities.

Required A.A. Degree Program Total: 62 credits

*Students are advised to take non-History courses to fulfill the Humanities and Social and Behavior Sciences general education requirements.

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

pre-Law

A.A. Degree • Suggested Curriculum

This transfer program is designed to provide students with the background necessary for advanced work at a university. A bachelor's 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 the list for Area C.

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)

Select courses from the bachelor's degree major you plan to pursue.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 the list for Area C.

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)

Select 24-25 credits from the list of courses approved for transfer or courses from the bachelor's degree major you are considering.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Mass Communication: Advertising/Public Relations

A.A. Degree • Suggested Curriculum

It is recommended that students complete the entire mass communication core at one school. Mass Communication students who wish to concentrate in Advertising/Public Relations should complete a minimum of six credit hours in the major in addition to the General Education Core Curriculum. Remaining credits needed to complete an associate 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)

Select one math course from the list for Area C.

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 (6-9)

BUS 261 [MC912] Advertising (3)

Select one or two courses from:

COMM 111 [MC 911] Introduction to Mass Communication (3)

JRNLM 101 [MC 919] Introduction to Journalism (3)

III. Electives (15-19)

ITAPP 101 [BUS 902] Introduction to Computers (3)
(if student is not already computer literate)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Mass Communication: Multimedia

A.A. Degree • Suggested Curriculum

It is recommended that students complete the entire sequence at one school. 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 degree should be chosen with the assistance of an academic advisor. Some universities 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)

Select one math course from the list for Area C.

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)

GC 175 2D Animation (3)

ITWEB 105 Multimedia Writing (3)

III. Electives (15-16)

ITAPP 101 [BUS 902] Introduction to Computers (3)
(if student is not already computer literate)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Mass Communication: Radio/TV/Film

A.A. Degree • Suggested Curriculum

It is recommended that students complete the entire mass communication core at one school. 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 degree should be chosen with the assistance of an academic advisor. Some universities 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)

Select one math course from the list for Area C.

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 [HF 908] Film and Literature (3)

III. Electives (15-16)

ITAPP 101 [BUS 902] Introduction to Computers (3)
(if student is not already computer literate)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Mathematics

A.S. Degree • Suggested Curriculum

It is recommended that students complete the entire sequence at one school. 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 university's 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) recommended

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 (13)

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

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

MATH 216 [MTH 912] Differential Equations (3)

or

MATH 220 Linear Algebra (3) preferred

III. Electives (9-10)

ITPRG 147 [CS 911] JAVA Programming I (3)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

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.

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 [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 (21)

BIOL 111 Cellular and Molecular Biology (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

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 university. 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 either the Test of Academic Proficiency have a composite ACT plus writing score of 22, or an SAT of 1030 in order to gain admission into a college of Education.

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. ART 131, ENG 243, HUMAN 101, or PHILO 205 recommended to meet the non-Western Cultures requirement by some senior institutions.

Area C: Mathematics (3 credits)

Select one math course from the list for Area C.

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. 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 (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 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

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 university. Transfer admission in music is competitive, and most universities 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, one English course numbered 200 or above is recommended.

Area C: Mathematics (3 credits)

Select one math course from the list for Area C.

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 (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

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 (38-39)

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 (8-9 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 111 Cellular & Molecular Biology (4)
 CHEM 105/110 Check with the university you are considering to choose the appropriate level of chemistry (4-5)

Area E: Social and Behavioral Sciences (9 credits)

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

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

II. Area of Concentration/Major Field (12)

BIOL 211 Microbiology (4)
 BIOL 221 Human Anatomy & Physiology I (4)
 BIOL 222 Human Anatomy & Physiology II (4)

III. Electives (11-12)

Less commonly required pre-Nursing classes are below. Check with the university you are considering.

CHEM 130 General Chemistry II (4)
 CHEM 203 Organic Chemistry I (5)

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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)

Select one life science 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/ANTHR 222/SOCIO 101 (3)
 PSYCH 101 [S6 900] Introduction to Psychology (3)
 PSYCH 102 [S6 902] Human Growth and Development: Life Span (3)

II. Area of Concentration/Major Field (11)

BIOL 221 Human Anatomy & Physiology I (4)
 BIOL 222 Human Anatomy & Physiology II (4)
 PSYCH 203 Abnormal Psychology (3)

III. Electives (11-12)

Less commonly required pre-Occupational Therapy classes are below. Check with the university you are considering.

PHYSI 120 College Physics I (4)

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 PSC 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 [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 including:

- ECON 201 [S3 901] Macroeconomic Principles (3)

II. Area of Concentration/Major Field (21)

- 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

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Physical Education

A.A. Degree • Suggested Curriculum

This curriculum 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 PSC. 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. For Illinois teacher certification, select one English course numbered 200 or above. ART 131, ENG 243, HUMAN 101 or PHILO 205 recommended to meet the non-Western Cultures requirement at some senior institutions.

Area C: Mathematics (3 credits)

Select one math course from the list for Area C.

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. It is recommended that both courses have a lab for the Illinois teaching certificate.

- BIOL 112 [LI 900L] Organismal Biology (4) *recommended*

Area E: Social and Behavioral Sciences (9 credits)

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

- PSYCH 101 [S6 900] Introduction to Psychology (3)
 PSYCH 102 [S6 902] Human Growth and Development: Lifespan (3)
 POLSC 140 or HIST 201 or 202 recommended for Illinois teacher certification.

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

- 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

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 153 [M1 902] Probability and Statistics (4)

Area D: Physical and Life Sciences (9 credits)

BIOL 112 [LI 902L] 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 including:

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

II. Area of Concentration/Major Field (21)

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)
 PHYSI 120 College Physics I (4)
 PHYSI 130 College Physics II (4)

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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. PSC 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 [PI 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 (16)

Physics core courses:

PHYSI 210 [PHY 911] University Physics I (4)
 PHYSI 220 [PHY 912] University Physics II (4)
 PHYSI 230 [PHY 914] University Physics III (4)

III. Electives (5-6)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.S. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

Political Science

A.A. Degree • Suggested Curriculum

This curriculum is designed for students pursuing a bachelor's 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 the list for Area C.

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 (12)

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)

POLSC 250 [PLS 913] Introduction to Political Philosophy (3)

III. Electives (12-13)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 bachelor's degree. 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)

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 including:

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

II. Area of Concentration/Major Field (9)

PSYCH 102 [S6 902] Human Growth & Development: Life-Span (3)

PSYCH 203 [PSY 905] Abnormal Psychology (3)

PSYCH 215 [S8 900] Social Psychology (3)

III. Electives (13-16)

MATH 155 [M1 906] Finite Mathematics (4)

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

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.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 university.

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)

ENG 211 or 212 American Literature I or II (3)

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

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)

BIOL 100 [L1 900L] General Education Biology (4)

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

Area E: Social and Behavioral Sciences (9 credits)

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)

ECON 201 Macroeconomic Principles (3)

POLSC 140 Introduction to U.S. Governments and Politics (3)

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

SOCIO/SWK 201 Introduction to Social Work (3)

III. Electives (10-11)

BIOL 108 Essentials of Anatomy and Physiology (4)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 bachelor's degree. 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 [S1 900N] Introduction to Anthropology (3)

or

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

SOCIO 101 [S7 900] Introduction to Sociology (3)

Select one additional course from the list for Area E.

II. Area of Concentration/Major Field (9)

Select up to three courses from:

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 (15-16)

Select additional courses from the list of courses approval for transfer or contact the universities you are considering.

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 the list for Area C.

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)

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)

Required A.A. Degree Program Total: 62 credits

Each college and university has its own major requirements and transfer policies. Consult the schools you are considering and a PSC advisor to discuss courses and their transferability.

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 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. Successfully completing 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. 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)

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.

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 Technology

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 (Cert.)
Bookkeeping (Cert.)
Business Essentials (Cert.)

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 Technology (Cert.)

Criminal Justice

Criminal Justice Services (A.A.S.)
Criminal Justice Services (Cert.)

Early Childhood

Child and Family Studies (A.A.S.)
Child Care Teacher (Cert.)
Early Childhood Education Center 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.)
Basic Firefighter Operations (Cert.)
Firefighter III (Cert.)
Firefighter/EMT (Cert.)

Fitness

Fitness and Exercise (A.A.S.)
Group Fitness Instructor (Cert.)
Personal Trainer (Cert.)

Graphic Communications

Multimedia Arts (A.A.S.)
Animation (Cert.)
Digital Design (Cert.)
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.)
Industrial Electrician (A.A.S.)
Industrial Electrician (Cert.)
Industrial Maintenance Technician (Cert.)
Machinist (Cert.)
Manufacturing Technology (A.A.S.)
Manufacturing Technology (Cert.)
Industrial Mechanic (Cert.)
Tool & Die Making (A.A.S.)
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-Commerce (Cert.)
Game Design and Development (Cert.)
Network Security Specialist (Cert.)
Networking Specialist (Cert.)
Office Productivity Specialist (Cert.)
Office Specialist (Cert.)
Programming (Cert.)
Software Technician (Cert.)
Software User (Cert.)
Web Developer (Cert.)
Web Technician (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 performing 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 (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 on pages 50-52 (3)

Area C: Mathematics (4 credits)

TECH 109 Technical Mathematics I (4)

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 (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: 66-67 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 Service Management Specialist

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 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 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
Bookkeeping
Business Essentials

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.

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 (40)

BUS 101 Introduction to Modern Business (3)
BUS 105 Human Relations (3)
BUS 127 Business Communications (3)
BUS 131 Financial Accounting (4)
BUS 132 Managerial Accounting (3)
BUS 165 Personal Asset Management (3)
BUS 201 Business Law (3)
BUS 241 Principles of Management (3)
BUS 242 Human Resources Management (3)
BUS 251 Principles of Marketing (3)
BUS 261 Advertising (3)
ECON 202 Microeconomic Principles (3)
ITAPP 101 Introduction to Computers (3)

III. Electives (3-4)

Minimum of 3 credit hours required (3-4).

Choose one of the following courses:

BUS 103 Business Math (3)
BUS 120 Sales (3)
BUS 170 Small Business Management (3);
or take **both**:
BUS 298 Seminar (1) **and**
BUS 299 Internship (3)

Program Total: 61-63 credits

Accounting

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 107 Bookkeeping and Procedural Accounting (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)
ECON 201 Macroeconomic Principles (3)
ITAPP 125 Spreadsheet Applications - Level 1 (3)
ITAPP 126 Spreadsheet Applications - Level 2 (3)

Program Total: 34 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)
ITAPP 101 Introduction to Computers (3)

Program Total: 15 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 (41)

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 Manufacturing Basics—Measurement, Materials, and Safety (4)

MT 102 Manufacturing Job Planning, Benchwork, and Layout (4)

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: 63 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 Manufacturing Basics—Measurement, Materials, and Safety (4)

TECH 109 Technical Mathematics I (4)

Program Total: 29 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 Technology

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 (19-21)

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)

Options are to take **both**:

AMATH 101 Algebra for the Skilled Trades (2) **and**

AMATH 106 Applied Trigonometry for the Skilled Trades (2);

or choose from **one** of the following courses:

IT 106 Mathematics for Computers (3)

MATH 151 College Algebra (4)

TECH 109 Technical Mathematics I (4)

Area D: Physical and Life Sciences (4-5 credits)

Select from the following courses:

CHEM 105, 110; PHYSYC 111; PHYSI 101, 120, 210 (4-5)

Area E: Social and Behavioral Sciences (3 credits)

Select one course from Area E (3)

II. Area of Concentration/Program Requirements (33)

COL 101 First Year Seminar (1)

COL 102 Career Development Seminar (1)

ELECT 101 Fundamentals of Electricity I (2)

ELECT 102 Fundamentals of Electricity II (2)

ELECT 103 Alternating Current (2)

ELECT 111 Electronic Principles I (2)

ELECT 112 Electronic Principles II (2)

ELECT 120 Electrical Safety (2)

ELECT 201 Digital Fundamentals I (2)

ELECT 202 Digital Fundamentals II (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)

IT 140 Introduction to Operating Systems (3)

ITNET 160 Computer Repair (4)

III. Electives (10)

Select from the following courses: (11)

ELECT 108, 109, 290; ITAPP 101; ITPRG 103, 144, 147; ITWEB 101

Program Total: 62-64 credits

Computer Electronics Technology

Certificate

This program provides the electronics foundation for servicing computers and related electronics equipment.

Program Requirements

COL 101 First Year Seminar (1)

COL 102 Career Development Seminar (1)

ELECT 101 Fundamentals of Electricity I (2)

ELECT 102 Fundamentals of Electricity II (2)

ELECT 103 Alternating Current (2)

ELECT 111 Electronic Principles I (2)

ELECT 112 Electronic Principles II (2)

ELECT 120 Electrical Safety (2)

ELECT 201 Digital Fundamentals I (2)

ELECT 202 Digital Fundamentals II (2)

IT 140 Introduction to Operating Systems (3)

ITNET 160 Computer Repair (4)

Minimum of 3 credit hours in mathematics required (3-4).

Options are to take **both**:

AMATH 101 Algebra for the Skilled Trades (2) **and**

AMATH 106 Applied Trigonometry for the Skilled Trades (2);

or choose from **one** of the following courses:

IT 106 Mathematics for Computers (3)

MATH 151 College Algebra (4)

TECH 109 Technical Mathematics I (4)

Select 9 credit hours from the following courses:

ELECT 108, 109, 203, 204, 290; ITAPP 101; ITPRG 103, 144, 147;

ITWEB 101

Program Total: 37-38 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 203 Principles of Criminal Investigation (3)
 CJ 204 Juvenile Justice (3)
 CJ 207 Street Law: Understanding Law and Legal Issues (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, 203, 207, 270 (6)

Program Total: 30 credits

Early Childhood

Child and Family Studies (A.A.S.)
 Child Care Teacher
 Early Childhood Education Center 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.

As an Illinois Gateways to Opportunity entitled institution, completion of course requirements for the A.A.S. degree can lead to an Illinois Early Childhood Teacher Credential 2, 3, or 4. Students who pursue an Illinois Infant-Toddler Teacher Credential I or an Illinois Director Credential I can complete the requirements for those credentials through Early Childhood Education elective choices. Students should seek more information from the Early Childhood Education/Child and Family Studies Coordinator.

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 I 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)

or

MATH 112 General Education Mathematics (3)

or

MATH 115 General Education Statistics (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)

ECED 103	Health, Safety, and Nutrition (3)
ECED 104	Introduction to Early Childhood Education (3)
ECED 115	Observation and Assessment of Young Children (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)
ECED 251	Curriculum Design for Early Childhood Programs (3)
ECED 299	Early Childhood Education Internship (3)
ED 101	Child Growth and Development (3)
ED 212	Exceptional Child (3)
ED 220	Children's Literature (3)

Select 6 credit hours from the following courses after consultation with program coordinator:

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 150	Introduction to Early Childhood Administration – Legal Requirements (1)
ECED 151	Introduction to Early Childhood Administration – Program Operations (1)
ECED 152	Introduction to Early Childhood Administration – Facilities Management (1)
ECED 217	Administration of Early Childhood Education Centers – Personnel, Families and Children (3)
ECED 218	Administration of Early Childhood Education Centers – Practices and Procedures (3)
ECED 219	Applied Early Childhood Center Administration (3)
ECED 298	Administration of an Early Childhood Center Internship (3)

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 Teacher

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, and community-based centers. Students are prepared for employment as teachers and child care assistants, and other entry-level positions in the child care field.

Because Prairie State College is an entitled institution, these courses can be used to meet Illinois Gateways Early Childhood Teacher credentials.

(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 103	Health, Safety, and Nutrition (3)
ECED 104	Introduction to Early Childhood Education (3)
ECED 115	Observation and Assessment of Young Children (3)
ECED 120	Child, Family, and Community (3)
ECED 130	Guidance and Classroom Management (3)
ECED 205	Language Arts for Children (3)
ECED 251	Curriculum Design for Early Childhood Programs (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)

or

MATH 112	General Education Mathematics (3)
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or

MATH 115	General Education Statistics (3)
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Note: Students seeking a Level 2 credential should substitute MATH 112 or MATH 115 for MATH 111.

Program Total: 36 credits

Early Childhood Education Center Director

Certificate

This program prepares students to meet Illinois Department of Children and Family Services requirements to be an Early Childhood Education Center Director. Students must also have completed two years of college credit. Since PSC is an entitled institution, these courses can be used to meet Illinois Gateways Director Credential I requirements.

Program Requirements

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 213	Multicultural Education (3)
ECED 217	Administration of Early Childhood Education Centers – Personnel, Families and Children (3)
ECED 218	Administration of Early Childhood Education Centers – Practice and Procedures (3)
ECED 251	Curriculum Design for Early Childhood Programs (3)
ED 101	Child Growth and Development (3)
Choose 3 credits from the following, based on recommendation of the program coordinator:	
ECED 150	Introduction to Early Childhood Administration – Legal Requirements (1)
ECED 151	Introduction to Early Childhood Administration – Program Operations (1)
ECED 152	Introduction to Early Childhood Administration – Facilities Management (1)
ECED 219	Applied Early Childhood Center Administration (3)
ECED 298	Administration of an Early Childhood Center Internship (3)

Program Total: 30 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

ECED 104	Introduction to Early Childhood Education (3)
ED 101	Child Growth and Development (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; HIST 112, 115, 116, 140, 201, 202; POLSC 140; SOCIO 220

II. Program Requirements (28)

ECED 103 Health, Safety, and Nutrition (3)
ED 100 Foundations of American Public Education (3)
ED 101 Child Growth and Development (3)
ED 160 Technology for Teachers (3)
ED 212 Exceptional Child (3)
ED 220 Children's Literature (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)

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.

ECED 103 Health, Safety, and Nutrition (3)
ED 101 Child Growth, and Development (3)
ED 160 Technology for Teachers (3)
ED 212 Exceptional Child (3)
ED 220 Children's Literature (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 (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 (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)

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)

Program Total: 3 credits

Fire Science

Fire Science Technology (A.A.S.)

Fire Science Technology

Basic Firefighter Operations

Firefighter III

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, 112; CHEM 105; PHYSC 111, 112; PHYSI 101

Area E: Social and Behavioral Sciences (3 credits)

PSYCH 101 Introduction to Psychology (3) *required*

II. Program Requirements (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 Basic Firefighter Operations (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 120, 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 207 Fire Department Management I (3)

FST 208 Fire Department Management II (3)

FST 210 Fire Apparatus Engineer (3)

FST 212 Fire Science Instructor I (3)

Program Total: 24 credits

Basic Firefighter Operations

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 document current affiliation with a fire department prior to admission to this program.

Program Requirements

FST 119 Basic Firefighter Operations (7)

Program Total: 7 credits

Firefighter III

Certificate

This program continues the study of fire department organization, fire behavior, safety issues and rescue techniques begun in Firefighter II. Students with valid Firefighter II certification prepare to sit for the State Fire Marshal Firefighter III and Rescue Awareness certificate exams.

Program Requirements

FST 120 Firefighter III (6)

Program Total: 6 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)

Choose one:

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

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

Multimedia Arts (A.A.S.)

Animation
Digital Design
Web Designer

Multimedia Arts

A.A.S. Degree

This visual communication program prepares students for entry-level positions in the multimedia industry. Students learn to create and deliver content via multiple media formats including print, illustration, text, digital imagery, audio, video, and interactive web sites.

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)

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*

The AAS degree is not intended for transfer; higher math is recommended if students plan to transfer:

MATH 112 General Education Mathematics (3)

or

MATH 115 General Education Statistics (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)

Select one course from Area E (3)

II. Program Requirements (35)

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)
COMM 111 Introduction to Mass Communications (3)
GC 151 Principles of Graphic Design (3)
GC 154 Typography (2)
GC 162 Introduction to Web Site Development (3)
GC 299 Internship/Seminar (3)

or

ART 295 Portfolio Seminar (3)

Specialization Option (12)

Select **one** specialization option from the list below and choose 12 credits from within that specialty.

Print Media Option:

ART 126 History of Photography (3)
ART 162 Life Drawing (3)
ART 201 Painting I (3)
ART 205 Printmaking (3)
GC 160 Design for Publishing (3)
GC 171 Illustration (3)
GC 287 Professional Design (3)
PHOTO 171 Introduction to Photography (3)

Digital Media Option:

GC 156 Design Software Workshop (2)
GC 175 2D Animation (3)
GC 262 Flash/Interface Design (3)
GC 265 Interactive Design Project (3)
GC 270 Advanced Web Site Design (3)
MUSIC 173 Introduction to Digital Sound (2)
PHOTO 267 Video Production (4)
PHOTO 275 Photographic Design (3)

Program Total: 62-63 credits

Animation

Certificate

The Animation program prepares students for entry level positions as web animators, 2D/3D animators, flash designers, and multimedia artists in industries such as motion pictures and video, advertising, and web and interactive design firms. The program incorporates audio/video technology, laws of motion and physics, drawing, and computer art while giving students the opportunity to build a comprehensive portfolio of work.

Program Requirements

ART 101 Two Dimensional Design (3)
ART 115 Introduction to Computer Art (3) (same as GC 115)
ART 162 Life Drawing (3)
GC 175 2D Animation (3)
GC 177 3D Animation (3)
GC 262 Flash/Interface Design (3)
MUSIC 173 Introduction to Digital Sound (2)
PHOTO 267 Video Production (4)

Program Total: 24 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

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)
GC 262	Flash/Interface Design (3)
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 68 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 68 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 (48)

BIOL 211 Microbiology (4)
 BIOL 222 Human Anatomy and Physiology II (4)
 NURS 101 Basic Care Needs (7)
 NURS 102 Acute Care Needs (8)
 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: 70 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)
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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 Education 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)

Students must complete NBSTSA exam

Program Total: 43 credits

Industrial Technology

CNC Programmer/Operator
 Heating, Ventilation, Air Conditioning and Refrigeration
 Industrial Electrician (A.A.S.)
 Industrial Electrician
 Industrial Maintenance Technician
 Machinist
 Manufacturing Technology (A.A.S.)
 Manufacturing Technology
 Industrial Mechanic
 Tool & Die Making (A.A.S.)
 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 Manufacturing Basics—Measurement, Materials, and Safety (4)
 MT 102 Manufacturing Job Planning, Benchwork, and Layout (4)
 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: 34 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

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 (19-21)

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)

Minimum of 3 credit hours in mathematics required (3-4).

Options are to take both:

AMATH 101 Algebra for the Skilled Trades (2) **and**
AMATH 106 Applied Trigonometry for the Skilled Trades (2);

or choose from **one** of the following courses:

IT 106 Mathematics for Computers (3)
MATH 151 College Algebra (4)
TECH 109 Technical Mathematics I (4)

Area D: Physical and Life Sciences (4-5 credits)

Select one course from the following CHEM 105, 110; PHYS 111; PHYS 101, 120, 210

Area E: Social and Behavioral Science (3 credits)

Select one course from Area E (3)

II. Program Requirements (41)

COL 101 First Year Seminar (1)
COL 102 Career Development Seminar (1)
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 Print Reading for Electricians (2)
ELECT 114 National Electrical Code (2)
ELECT 120 Electrical Safety (2)
ELECT 159 Electrical Wiring I (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 (8)

Select from ELECT 141, 150, 160, 201, 202, 206, 207, 230, 290;
PHYS 130 (8)

Program Total: 68-70 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

Minimum of 3 credit hours in mathematics required (3-4).

Options are to take **both**:

AMATH 101 Algebra for the Skilled Trades (2) **and**
AMATH 106 Applied Trigonometry for the Skilled Trades (2);

or choose from **one** of the following courses:

IT 106 Mathematics for Computers (3)
MATH 151 College Algebra (4)
TECH 109 Technical Mathematics I (4)

COL 101 First Year Seminar (1)
COL 102 Career Development Seminar (1)
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 Print Reading for Electricians (2)
ELECT 114 National Electrical Code (2)
ELECT 120 Electrical Safety (2)
ELECT 159 Electrical Wiring I (2)
ELECT 203 Industrial Electronics I (2)
ELECT 204 Industrial Electronics II (2)
ELECT 208 Programmable Logic Controllers I (2)

Select 5 credits from ELECT 111, 112, 141, 160, 201, 202, 206, 207, 209, 290 (5)

Program Total: 38-39 credits

Industrial Maintenance Technician

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 101	Algebra for the Skilled Trades (2)
AMATH 106	Applied Trigonometry for the Skilled Trades (2)
DRAFT 115	Blueprint Reading for Mechanical Trades (2)
ELECT 101	Fundamentals of Electricity I (2)
ELECT 102	Fundamentals of Electricity II (2)
ELECT 103	Alternating Current I (2)
ELECT 106	DC Motors and Generators (2)
ELECT 107	AC Motors and Generators (2)
ELECT 159	Electrical Wiring I (2)
ELECT 208	Programmable Logic Controllers I (2)
HYDR 101	Fundamentals of Hydraulics (2)
HYDR 103	Hydraulic Controls (2)
HYDR 106	Pneumatics (2)
MT 120	Industrial Safety (2)
MILL 101	Industrial Maintenance Techniques I (2)
MILL 102	Industrial Maintenance Techniques II (2)
MILL 103	Lubrication (2)
MILL 106	Power Train Elements (2)
MILL 107	Machine Vibration Analysis I (2)
PIPE 101	Fundamentals of Pipefitting (2)
WELD 101	Principles of Flat Welding (2)
WELD 102	Horizontal Welding and Brazing (2)

Program Total: 44 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 103	Geometry for the Skilled Trades (2)
AMATH 106	Applied Trigonometry for the Skilled Trades (2)
DRAFT 115	Blueprint Reading for Mechanical Trades (2)
DRAFT 116	GD & T Application and Interpretation (2)
CADMD 141	Technical Drafting I (3)
CADMD 243	Introduction to AutoCAD (3)
MT 101	Manufacturing Basics—Measurement, Materials, and Safety (4)
MT 102	Manufacturing Job Planning, Benchwork, and Layout (4)
MT 105	Metal Working Processes III (3)
MT 210	CNC Programming I (3)
MT 211	CNC Programming II (3)
MT 214	CAD/CAM Systems (3)
MT 220	Metallurgy - Ferrous (2)

Program Total: 36 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) required
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Area D: Physical and Life Sciences (4 credits)

PHYSI 120	College Physics I (4) required
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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 (41)

CADMD 141	Technical Drafting I (3)
CADMD 243	Introduction to Auto-CAD (3)
MT 101	Manufacturing Basics—Measurement, Materials, and Safety (4)
MT 102	Manufacturing Job Planning, Benchwork, and Layout (4)
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: 63 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 Manufacturing Basics—Measurement, Materials, and Safety (4)
 MT 102 Manufacturing Job Planning, Benchwork, and Layout (4)
 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: 33 credits

Industrial Mechanic

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)
 PIPE 101 Fundamentals of Pipefitting (2)
 WELD 101 Principles of Flat Welding (2)
 WELD 102 Horizontal Welding and Brazing (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 (43)

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 Manufacturing Basics—Measurement, Materials, and Safety (4)
 MT 102 Manufacturing Job Planning, Benchwork, and Layout (4)
 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: 62-63 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; PIPE 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
 Web Option
 Computer Repair Specialist
 Desktop Publishing
 Digital Mass Communication
 E-Commerce Specialist
 Game Design and Development
 Network Security Specialist
 Networking Specialist
 Office Productivity Specialist
 Office Specialist
 Programming
 Software Technician
 Software User
 Web Developer
 Web Technician
 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, 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 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)

BUS 103 Business Mathematics (3) or
 IT 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 (41)

Core Courses:

BUS 101 Introduction to Modern Business (3)
 BUS 107 Bookkeeping and Procedural Accounting (3)
 ITAPP 101 Introduction to Computers (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 (3)
 ITAPP 126 Spreadsheet Applications - Level 2 (3)
 ITAPP 128 Database Applications - Level 1 (3)
 ITAPP 132 Desktop Publishing (3)
 ITAPP 133 Presentation Applications (2)
 ITOFS 111 Business Document Formatting (2)
 ITOFS 112 Advanced Document Production (3)
 ITOFS 117 Keyboarding Skill Development (1)
 ITOFS 119 Office Procedures and Management (3)

III. Electives (5-6)

Select from the following:

BUS 105, 127; IT 140, 205; ITAPP 100, 129, 232; ITOFS 100; ITPRG 103, 144, 157; ITWEB 103

Program Total: 64-66 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 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)

IT 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)
 BUS 107 Bookkeeping and Procedural Accounting (3)
 ITAPP 101 Introduction to Computers (3)
 ITNET 299 Internship (2)

Networking Concentration Courses:

IT 140 Intro to Operating Systems (3)
 IT 201 Systems Design and Develop. (3)
 IT 205 Ethics in Information Technology (2)
 IT 240 Intro to Linux Operating System (3)
 ITNET 160 Computer Repair (4)
 ITNET 165 Introduction to Networking (3)
 ITNET 250 Intro to LAN Administration (3)
 ITWEB 101 Web Page Fundamentals (3)

Select 11 credits from the following:

ITAPP 109, 121, 125, 128, 133; ITNET 260, 280; ITPRG 103, 142, 144, 147

Program Total: 64-65 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)

IT 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)

BUS 131 Financial Accounting (4)

ITAPP 101 Introduction to Computers (3)

ITPRG 299 Internship (2)

Programming Concentration Courses:

IT 140 Introduction to Operating Systems (3)

IT 201 Systems Design and Development (3)

IT 205 Ethics in Information Technology (2)

ITPRG 103 Introduction to Programming (3)

ITPRG 142 Introduction to Visual Basic Programming (3)

Choose **one** of the two following courses:

ITPRG 144 Introduction to C++ Programming (3)

ITPRG 147 Introduction to JAVA Programming (3)

Select 17 credits from the following:

ITAPP 133; ITOFS 100; ITPRG 144, 147, 154, 157, 242, 244, 247; ITWEB 101, 103, 201, 205

Program Total: 64-65 credits

Information Technology: Web 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)

IT 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)

BUS 107 Bookkeeping and Procedural Accounting (3)

ITAPP 101 Introduction to Computers (3)

ITWEB 299 Internship (2)

Web Concentration Courses:

COMM 111 Introduction to Mass Communication (3)

GC 115 or ART 115 Introduction to Computer Art (3)

IT 140 Introduction to Operating Systems (3)

IT 201 Systems Design and Development (3)

IT 205 Ethics in Information Technology (2)

ITPRG 157 JavaScript Programming (3)

ITWEB 101 Web Page Fundamentals (3)

ITWEB 103 Web Site Design - Level I (3)

ITWEB 105 Multimedia Writing (3)

ITWEB 201 Technology of E-Commerce (3)

ITWEB 203 Web Site Design - Level 2 (3)

ITWEB 205 Web Languages (3)

Program Total: 64-65 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)

IT 140 Introduction to Operating Systems (3)

ITNET 160 Computer Repair (4)

Select from IT 205; ITNET 165, 250 (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 122 Word Processing Applications - Level II (3)

ITAPP 132 Desktop Publishing (3)

ITAPP 133 Presentation Applications (2)

ITAPP 232 Advanced Desktop Publishing (3)

Choose **one** of the following:

ITWEB 103 Introduction to Web Site Development (3)

ART 115 Introduction to Computer Art (3)

Program Total: 20 credits

Digital Mass Communication

Certificate

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	Web Site Design - Level 1 (3)
ITWEB 105	Multimedia Writing (3)
ITWEB 203	Web Site Design - Level 2 (3)

Program Total: 18 credits

E-Commerce Specialist

Certificate

This certificate program prepares students to create and maintain electronic commerce Web sites. Topics include business, marketing, legal issues, programming, online monetary security issues, and graphic design considerations.

Program Requirements

BUS 101	Introduction to Modern Business (3)
IT 201	Systems Design and Development (3)
ITWEB 101	Web Page Fundamentals (3)
ITWEB 103	Web Site Design - Level 1 (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	2D Animation (3)
IT 140	Introduction to Operating Systems (3)
IT 205	Ethics in Information Technology (2)
ITPRG 103	Introduction to Programming (3)
ITPRG 144	Introduction to C++ Programming (3)
ITPRG 171	Game Design I (3)
ITPRG 173	Digital Storytelling (3)
Select one of the following courses:	
ITPRG 142	Introduction to Visual Basic Programming (3)
ITPRG 147	Introduction to JAVA Programming (3)
ITWEB 103	Web Site Design - Level 1 (3)
ITWEB 203	Web Site Design - Level 2 (3)
ITWEB 205	Web Languages (3)

Program Total: 29 credits

Network Security Specialist

Certificate

This program covers the fundamentals of computer networking with an emphasis on network security, network defense and data integrity. It prepares students for jobs in network administration and network security. Students are prepared for a range of industry certifications.

Program Requirements

IT 140	Introduction to Operating Systems (3)
IT 205	Ethics in Information Technology (2)
IT 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 280	Ethical Hacking (3)

Program Total: 24 credits

Networking 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

IT 140	Introduction to Operating Systems (3)
IT 240	Linux Operating System (3)
ITNET 160	Computer Repair (4)
ITNET 165	Introduction to Networking (3)
ITNET 250	Introduction to LAN Administration (3)

Program Total: 16 credits

Office Productivity Specialist

Certificate

This program provides students with the information and skills needed to be marketable and productive in a microcomputer environment. Career opportunities include word processing operator, spreadsheet specialist, technical support coordinator, database programmer, office manager, office productivity coordinator.

Program Requirements

BUS 105	Human Relations (3)
BUS 107*	Bookkeeping and Procedural Accounting (3)
IT 140	Introduction to Operating Systems (3)
IT 205	Ethics in Information Technology (2)
ITAPP 101	Introduction to Computers (3)
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 (3)
ITAPP 126	Spreadsheet Applications - Level 2 (3)
ITAPP 128	Database Applications - Level 1 (3)
ITAPP 129	Data Base Applications - Level 2 (3)

* BUS 131 - Financial Accounting will be accepted in place of BUS 107

Program Total: 33 credits

Office Specialist

Certificate

This program prepares students to begin a career in an office support position. Topics covered include expert word processing application skills, business document preparation, file management, meeting and travel arrangements, and effective business communication.

Program Requirements

ITAPP 121	Word Processing Applications - Level 1 (3)
ITAPP 122	Word Processing Applications - Level 2 (3)
ITAPP 125	Spreadsheet Applications - Level 1 (3)
ITAPP 133	Presentation Applications (2)
ITOFS 111	Business Document Formatting (2)
ITOFS 112	Advanced Document Production (3)
ITOFS 119	Office Procedures and Management(3)
ITOFS 199	Office Assistant Practicum (1)

Program Total: 20 credits

Programming

Certificate

This program is designed for students 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 various levels of programmer analyst such as Visual Basic programmer, C++ programmer, JAVA programmer, object-oriented programmer, and user interface designer.

Program Requirements

IT 140	Introduction to Operating Systems (3)
IT 201	Systems Design and Development (3)
ITPRG 103	Introduction to Programming (3)
ITPRG 142	Introduction to Visual Basic Programming (3)

Select from the following programming courses:

ITPRG 144, 147, 157, 242, 244, 247 (6)

Program Total: 18 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

IT 140	Introduction to Operating Systems (3)
ITAPP 101	Introduction to Computers (3)
ITAPP 109	Introduction to the Internet (1)

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

IT 140	Introduction to Operating Systems (3)
ITAPP 101	Introduction to Computers (3)
ITAPP 109	Introduction to the Internet (1)
ITAPP 121	Word Processing Applications - Level 1 (3)
ITAPP 125	Spreadsheet Applications - Level 1 (3)
ITAPP 128	Database Applications - Level 1 (3)

Program Total: 16 credits

Web Developer

Certificate

This program provides students with skills needed for creating websites and coding web pages. A web developer focuses more on the way a website works than how it looks. Web developers are required to have strong programming and database administration skills for building and maintaining websites that function well. Once a website is up and running, web developers ensure that the site is cross-functional on all web browsers, periodically testing and updating as needed.

Program Requirements

IT 140	Introduction to Operating Systems (3)
ITAPP 109	Introduction to the Internet (1)
ITAPP 128	Database Applications - Level I (3)
ITPRG 157	JavaScript Programming (3)
ITWEB 101	Web Page Fundamentals (3)
ITWEB 103	Web Site Design - Level I (3)
ITWEB 201	Technology of E-Commerce (3)
ITWEB 205	Web Languages (3)

Program Total: 22 credits

Web Technician

Certificate

This program teaches students Web technician skills. A Web technician is an Information Technology specialist who works with editors and graphic designers to create websites that are visually pleasing and easy to navigate. Duties have a technical focus that include knowledge of web coding languages, authoring tools, design principles, digital media, and Internet technology. Web technicians create the front-end of websites that meet the preferences of the owner and attract customers. Web technicians are expected to be creative, have an awareness of website usability, and be up to date with web accessibility guidelines.

Program Requirements

ART 115 or GC 115	Introduction to Computer Art (3)
IT 140	Introduction to Operating Systems (3)
ITAPP 109	Introduction to the Internet (1)
ITWEB 101	Web Page Fundamentals (3)
ITWEB 103	Web Site Design - Level I (3)
ITWEB 105	Multimedia Writing (3)
ITWEB 203	Web Site Design - Level 2 (3)
ITWEB 205	Web Languages (3)

Program Total: 22 credits

Webmaster

Certificate

This program provides students with skills needed for building, maintaining, and monitoring the performance of websites. A webmaster oversees a website to assure it stays online, optimizing the website and analyzing the speed of the website. Knowledge of Linux or Unix operating systems is important, because the server is usually hosted on Linux or Solaris. Students are offered hands-on activities in networking and operating systems in addition to web programming. The webmaster's position includes making sure that the website links are working properly, tracking the traffic going to a website and studying the web analytics (statistics) of the website.

Program Requirements

IT 140	Introduction to Operating Systems (3)
IT 240	Linux Operating System (3)
ITAPP 109	Introduction to the Internet (1)
ITNET 165	Introduction to Networking (3)
ITNET 250	Introduction to LAN Administration (3)
ITWEB 101	Web Page Fundamentals (3)
ITWEB 103	Web Site Design - Level I (3)
ITWEB 201	Technology of E-Commerce (3)

Program Total: 22 credits

Music

Music Production (A.A.S.)
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)

ELECT 101 Fundamentals of Electricity (2)
ELECT 111 Electronic Principles I (2)
ELECT 112 Electronic Principles II (2)
IT 140 Introduction to Operating Systems (3)
MUSIC 100 Fundamentals of Music Theory (3)
MUSIC 101 Musicianship I (4)
MUSIC 171 Fundamentals of Music Production (2)
MUSIC 172 Music in Film and Television (3)
MUSIC 174 Computer-Assisted Music Production (4)
MUSIC 176 Sound Recording Techniques (3)
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, 173, 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

ELECT 101 Fundamentals of Electricity (2)
IT 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 171 Fundamentals of Music Production (2)
MUSIC 172 Music in Film and Television (3)
MUSIC 174 Computer-Assisted Music Production (4)
MUSIC 176 Sound Recording Techniques (3)
MUSIC 274 Digital Composition for Video (4)
MUSIC 299 Music Production Internship (2)
PHYSI 101 Conceptual Physics (4)

Program Total: 33 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 (42)

ART 101 Two Dimensional Design (3)

ART 104 Drawing I (3)

ART 126 History of Photography (3)

PHOTO 171 Introduction to Photography (3)

PHOTO 175 Basic Lighting Skills (3)

PHOTO 180 Digital Imaging (3)

PHOTO 297 Professional Portfolio (3)

Art Elective:

Select 3 credits:

ART 121 History of Western Art I (3)

ART 122 History of Western Art II (3)

ART 129 Art Appreciation (3)

ART 131 Survey of Non-Western Art (3)

Specialization Option:

Select 18 credits:

PHOTO 196 Careers in Photography (1)

PHOTO 267 Video Production (4)

PHOTO 268 Event and Wedding Photography (4)

PHOTO 276 Commercial Techniques (4)

PHOTO 282 Fine Art Process (3)

PHOTO 283 Portraiture (3)

PHOTO 285 Digital Color Production (3)

PHOTO 286 Independent Photo Project (3)

PHOTO 287 Independent Photo Studio (3)

PHOTO 291 Survey of Contemporary Photography (3)

PHOTO 292 Photo Workshop: Special Topics (4)

PHOTO 293 Advanced Portraiture (3)

PHOTO 298 Seminar (1)

PHOTO 299 Internship (3)

III. Electives (3)

Select 3 credits from any courses in ART, PHOTO, or GC

Program Total: 60-61 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 Photography (3)

PHOTO 175 Basic Lighting Skills (3)

PHOTO 180 Digital Imaging (3)

PHOTO 196 Careers in Photography (1)

PHOTO 285 Digital Color Production (3)

PHOTO 291 Survey of Contemporary Photography (3)

Program Total: 19 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 Photography (3)

PHOTO 175 Basic Lighting Skills (3)

PHOTO 180 Digital Imaging (3)

PHOTO 283 Portraiture (3)

PHOTO 285 Digital Color Production (3)

PHOTO 293 Advanced Portraiture (3)

PHOTO 297 Professional Portfolio (3)

Program Total: 21 credits

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-district 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 (708) 709-3505.

Community Colleges Part of a CAREER Cooperative Program

- Black Hawk College
- Carl Sandburg College
- Danville 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
- Moraine Valley Community College
- Morton College
- Prairie State College
- Rend Lake College

- Richland Community College
- Rock Valley College
- Sauk Valley Community College
- South Suburban College
- Southwestern Illinois College
- Spoon River College
- Waubonsee 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

COURSE DESCRIPTIONS



Course	Abbreviation	Page	Course	Abbreviation	Page
Air Conditioning and Heating (see Heating, Ventilation, Air Conditioning and Refrigeration)			Information Technology – Office Skills	ITOFS	150
Anthropology	ANTHR	114	Information Technology – Programming	ITPRG	150
Applied Mathematics (see Mathematics)	AMATH		Information Technology – Web Development	ITWEB	152
Applied Physics (see Physics)	APHYS		Journalism	JRNLM	153
Art	ART	114	Library and Information Science	LIB	153
Astronomy	ASTRO	116	Manufacturing Technology	MT	153
Automotive Technology	AUTO	116	Mathematics (Applied)	AMATH	154
Biological Science	BIOL	117	Mathematics (Developmental & College-Level)	MATH	155
Business	BUS	119	Meteorology	METEO	158
CAD/Mechanical Design Technology	CADMD	121	Millwright (was APPMW)	MILL	158
Chemistry	CHEM	122	Music	MUSIC	158
College Skills	COL	123	Nursing	NURS	162
Communication	COMM	123	Philosophy	PHILO	163
Computer Electronics Technology	CET	124	Photographic Studies	PHOTO	164
Criminal Justice Services	CJ	125	Physical Education	PE	165
Dental Hygiene	DH	126	Physical Education: Exercise Science	PES	167
Drafting	DRAFT	128	Physical Science	PHYSC	168
Early Childhood Education	ECED	129	Physics (Applied Physics)	APHYS	168
Economics	ECON	131	Physics	PHYSI	168
Education	ED	132	Pipefitting	PIPE	169
Education – Paraprofessional	EDU	132	Political Science	POLSC	169
Electrician (was APPIE)	ELECT	133	Psychology	PSYCH	170
Emergency Medical Services	EMS	136	Reading	RDG	171
English/Literature	ENG	137	Registered Nursing	RN	171
Fire Science Technology	FST	139	Social Science	SOCS	171
First Responder (see Emergency Medical Services)	FRESP		Social Work	SWK	172
Geography	GEOG	142	Sociology	SOCIO	172
Geology	GEOLO	142	Spanish	SPAN	172
Graphic Communications	GC	142	Surgical Technology	SRT	173
Health	HLTH	144	Technology of Mathematics and Science	TECH	174
Heating, Ventilation, Air Conditioning & Refrigeration	HVACR	144	Theatre	THTRE	174
History	HIST	145	Tool and Die Making (was APPTD)	TOOL	174
Humanities	HUMAN	146	Welding (was APPW)	WELD	175
Hydraulics (was APPH)	HYDR	146			
Information Technology – Applications	ITAPP	147			
Information Technology – Networking	ITNET	149			

Illinois Articulation Initiative (IAI)

www.itransfer.org

Prairie State College participates in the Illinois Articulation Initiative (IAI), a statewide agreement that allows transfer of the completed Illinois Transferable General Education Core Curriculum between participating institutions. Completion of the Transferable General Education Core Curriculum at any participating college or university in Illinois assures transferring students that lower-division general education requirements for an associate or bachelor's degree have been satisfied. This agreement became effective statewide in the summer of 1998. It applies to students who enrolled in an associate or baccalaureate degree-granting institution as a first-time freshman in summer 1998 or later. More than 100 schools, including all community colleges and all public state universities in Illinois, as well as most independent colleges and universities in the state, participate in the IAI.

IAI Course Codes

IAI has its own course numbering sequence for the Illinois Transferable General Education Core Curriculum (GECC).

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 (IAI: S7 903D)

Race Relations: A Multicultural Perspective

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 Communication

IAI: F Fine Arts

IAI: H Humanities

IAI: HF Interdisciplinary Humanities and Fine Arts

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

IAI: L, LP Life Sciences

IAI: M Mathematics

IAI: P, LP 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 sub-area 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

Codes which represent the IAI Baccalaureate Majors recommendations have two parts: a letter code that represents the field of study and a unique number that represents the course content.

Baccalaureate Major Course Codes:

IAI:AG Agriculture

IAI: BIO Biological Sciences

IAI: BUS Business

IAI: CHM Chemistry

IAI: CS Computer Science

IAI: CRJ Criminal Justice

IAI: EGL English

IAI: EGR Engineering

IAI: HST History

IAI: IND Industrial Technology

IAI: MC Mass Communication

IAI: MTH Mathematics

IAI: PHY Physics

IAI: PLS Political Science

IAI: PSY Psychology

IAI: SOC Sociology

IAI: TA Theatre Arts

Anthropology

ANTHR 215 (IAI: SI 900N)

Introduction to Anthropology

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

Introduction to the major areas: physical anthropology, cultural anthropology, ethnology, and archeology. Topics include race; language; prehistory; the culture and social organization of contemporary, primitive, or preliterate peoples; human origins; and basic research methods in anthropology.

ANTHR 222 (IAI: SI 901N)

Introduction to Cultural and Social Anthropology

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

The cultural and social systems of both simple and complex societies: technology, aesthetics, language, religion, family and kinship, and associational life. Basic theories and methods relevant to those topics are introduced. This course is especially valuable for students in education, the humanities, and the social sciences.

Applied Physics

(See Physics)

Art

(See also Graphic Communications and Photographic Studies)

ART 101

Two Dimensional Design

Prerequisite: Placement into ENG 099 or higher

6 lab hrs per week: 3 hrs transfer credit

This course introduces the theory and practice of the elements and principles of 2-D design. Students experiment with a variety of media as they develop an understanding of the visual elements and principles of 2-D design.

ART 102

Three Dimensional Design

Prerequisite: ART 101

6 lab hrs per week: 3 hrs transfer credit

This course introduces the theory and practice of 3-D design. Students work with a variety of three-dimensional media and techniques as they develop an understanding of form, mass, contour, space, and texture.

ART 104 (IAI: ART 904)

Drawing I

Prerequisite: Placement into ENG 099 or higher

6 lab hrs per week: 3 hrs transfer credit

This course is an introduction to the materials and techniques of drawing as an art form. Working in black and white and colored media, students explore the formal, conceptual, and expressive dimensions of drawing. Emphasis is placed upon the observation, interpretation, and rendering of visible form.

ART 106

Drawing II

Prerequisite: ART 104

6 lab hrs per week: 3 hrs transfer credit

ART 106 reinforces the formal and technical concepts introduced in Drawing I. Students work with a variety of subjects and materials, exploring a wide range of conceptual approaches culminating in a final series of related drawings.

ART 109

Ceramics

Prerequisite: Placement into ENG 099 or higher

6 lab hrs per week: 3 hrs transfer credit

This studio course introduces ceramic clay-forming techniques with emphasis placed on wheel-throwing and hand-building methods of construction. Procedures on glazing, surface decorations, and clay and glaze theory are examined.

ART 115

Introduction to Computer Art

Prerequisite: Placement into ENG 099 or higher

6 lab hrs per week: 3 hrs transfer credit

This studio course introduces students to the history and use of computer applications in the visual arts. Students learn to generate, combine, and manipulate traditional and contemporary visual ideas using both raster paint/photo retouching programs and professional quality vector drawing programs. (same as GC 115)

ART 121 (IAI: F2 901)

History of Western Art I

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course surveys the chronological development of the visual arts in Western society from prehistory through the Middle Ages. Emphasis is placed upon the analysis of form, style and content as well as the historical context in which works of art are created.

ART 122 (IAI: F2 902)

History of Western Art II

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course surveys the chronological development of the visual arts in Western society from the early Renaissance through the Modern period. Emphasis is placed upon the analysis of form, style, and content, as well as the historical context in which works of art are created.

ART 126 (IAI: F2 904)

History of Photography

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course surveys the history of photography as an art form from 1839 to the present, with an emphasis upon the medium's technological and aesthetic development. Students learn to examine photographs as expressions of ideas and beliefs of individual photographers within their social and cultural context.

ART 129 (IAI: F2 900)

Art Appreciation

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

Art Appreciation serves as an introduction to the visual arts for non-art majors. Students examine selected works in painting, drawing, printmaking, sculpture, and architecture from various cultures and periods. Emphasis is placed upon historical, social, and technological factors that contribute to understanding the aesthetic form, function, and meaning of art. Field trips may be included.

ART 131 (IAI: F2 903N)

Survey of Non-Western Art

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course surveys the visual arts of non-Western societies, including, India, China, Japan, Oceania, Africa, and Native North and South America, and examines the influence of non-Western art on contemporary Western art.

ART 162

Life Drawing

Prerequisite: ART 101 & 104

6 lab hrs per week: 3 hrs transfer credit

This advanced course in drawing focuses upon the direct observation and interpretation of visual form, with an emphasis on the human figure. Students are expected to demonstrate competence with diverse drawing materials and various compositional strategies.

ART 201

Painting I

Prerequisite: Placement into ENG 099 or higher

6 lab hrs per week: 3 hrs transfer credit

This course introduces students to the technical and aesthetic dimensions of painting. Students address both formal and expressive qualities of painting as they observe and interpret a variety of subjects from life. A final portfolio is required.

ART 202

Painting II

Prerequisite: ART 201

6 lab hrs per week: 3 hrs transfer credit

This course is a continuation of ART 201 and introduces a wider range of both technical and conceptual approaches to painting. Students are encouraged to seek a more personal voice through exploring the expressive dimensions of painting and developing a final series of related works on a chosen theme.

ART 205

Printmaking

Prerequisite: ART 101 and 104

6 lab hrs per week: 3 hrs transfer credit

This course is an introduction to traditional and contemporary fine art printmaking practices. Students produce a portfolio that demonstrates a basic understanding of the technical and aesthetic dimensions of this art form.

ART 246

Independent Study

Prerequisite: None

1 lecture, 4 lab hrs per week: 3 hrs transfer credit

May be repeated two times.

The independent study in fine arts provides advanced students with the opportunity to pursue a specialized creative project that goes beyond the normal course offerings. Students contract a problem, present alternative directions to its solution and present a final portfolio of artwork accompanied by a written statement. Frequent critiques are conducted throughout the semester.

ART 295

Portfolio Seminar

Prerequisite: Consent of instructor

2 lectures, 2 lab hrs per week: 3 hrs transfer credit

This course is an interdisciplinary arts seminar that is intended to expose students to a wide range of artistic concerns and practices through lectures, discussions, and critiques. Specific workshops focus on the development of a resume, an art portfolio, and a statement of artistic purpose.

Astronomy

ASTRO 101 (IAI: PI 906)

Guide to the Universe

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This non-lab course is a one semester conceptual study of the major topics and concepts of astronomy. Topics include basic cycles and motions of the sky, major stars and constellations, properties of electromagnetic radiation and astronomical telescopes, history of astronomy, characteristics of the solar system, comparative planetology, stellar and galactic evolution and formation, structure of the Milky Way galaxy, types of galaxies, Dark Matter, and cosmology.

ASTRO 104 (IAI: PI 906L)

The Solar System and Beyond

Prerequisite: Placement into ENG 099 or higher and MATH 090 or higher or completion of MATH 085 with a grade of C or better

3 lectures, 2 lab hrs per week: 4 hrs transfer credit

This lab course is a one-semester conceptual study and investigation of astronomical phenomena. Topics include cycles of the sun and moon, the origin of modern astronomy, electromagnetic radiation and astronomical telescopes, characteristics of the solar system, comparative planetology, evolution and death of stars, structure of the Milky Way galaxy, types of galaxies, modern cosmology, and astrobiology.

Automotive Technology

AUTO 101

Basic Automobile Service and Systems

Prerequisite: Placement into RDG 098 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course introduces automotive systems and service. It includes safety systems, drive lines, engines, transmissions, transaxles, heating and cooling systems, fuel systems, steering and brake systems, ignition systems, construction, and operating systems.

AUTO 102

Automotive Engines

Prerequisite: AUTO 101

2 lectures, 4 lab hrs per week: 4 hrs credit

This course focuses on automotive engine repair, disassembly, adjustments, assembly, and operation. Service units include block, cylinder heads, valve assembly, lubrication system, and cooling system.

AUTO 107

Automotive Electricity/Electronics I

Prerequisite: Placement into RDG 098 or higher

2 lectures, 4 lab hrs per week: 4 hrs credit

Specialized training is provided in the basic automotive electrical system, including the electrical circuits, storage batteries, cranking systems, charging systems, ignition systems, electrical system-circuit-component tests, and the testing equipment that pertains to the automotive diagnostic-service field.

AUTO 108

Suspension and Steering Systems

Prerequisite: AUTO 101

2 lectures, 4 lab hrs per week: 4 hrs credit

This course covers component repair operations, adjustments, and performance testing of front and rear suspension systems. Service units include control arm pivot shaft bushings, ball joints, springs, shocks, MacPherson struts, bearings, wheels, tires, steering linkages, and gears.

AUTO 202

Automatic Brake Systems

Prerequisite: AUTO 101

2 lectures, 4 lab hrs per week: 4 hrs credit

This course covers component repair operations, adjustments, and performance testing of drum and disk brake systems. Service units include wheel cylinders, master cylinders, power boosters, parking brakes, control devices, shoe drums, rotors, and fluid transfer lines. Students also are introduced to the computer systems that control the brake system.

AUTO 205

Manual Transmissions and Transaxles

Prerequisite: AUTO 101

2 lectures, 4 lab hrs per week: 4 hrs credit

This course covers operation and maintenance service of clutches, standard transmissions, overdrives, drive lines, differentials, and major manual transaxles.

AUTO 206

Automotive Engine Performance

Prerequisite: AUTO 102, 107

2 lectures, 4 lab hrs per week: 4 hrs credit

This course covers diagnosing and repairing complex engine and computer problems and drivability problems of the modern automobile.

AUTO 207

Automotive Heating/Air Conditioning

Prerequisite: AUTO 101

2 lectures, 4 lab hrs per week: 4 hrs credit

This course focuses on component repair operations and adjustments. Performance testing on heating, defrosting, and air conditioning systems is included. Retro fitting and alternative refrigerants also are studied.

AUTO 208

Automatic Transmissions and Transaxles

Prerequisite: AUTO 101

2 lectures, 4 lab hrs per week: 4 hrs credit

This course covers component repair operations, adjustments, and performance testing on automatic transmissions, transmission controls, auto transaxle transmissions, overdrives, and drive lines.

AUTO 210

Automotive Electricity/Electronics II

Prerequisite: AUTO 101 and 107

2 lectures, 4 lab hrs per week: 4 hrs credit

This course covers electrical circuit identification, isolation, testing repair, and component operation. Service units include batteries, starting system, ignition system, charging system, light circuits, gauges, and electrical accessories, and diagnosis on chassis electronics and all electrical components of the vehicle.

AUTO 211

Automotive Engine Performance II

Prerequisite: AUTO 206, 210

2 lectures, 4 lab hrs per week: 4 hrs credit

Student technicians cover the operational aspects of automotive computer output/input control systems, performance diagnosis procedures, repair, service, and OBD I, OBD II, readiness monitors, and IM-240.

AUTO 215

Advanced Automotive Service and Systems

Prerequisite: AUTO 206, 210

2 lectures, 4 lab hrs per week: 4 hrs credit

This course focuses on advanced automotive engine, engine performance, brake, electric/electronic, computer, and transmission system operation and diagnosis.

AUTO 223

Automotive Parts Management

Prerequisite: Placement into ENG 099 or higher

2 lectures per week: 2 hrs credit

Parts training includes the use of parts, equipment and supply catalogs, descriptive nomenclature, stock familiarization, pricing procedures, and inventory control.

AUTO 224

Automotive Service Management

Prerequisite: Placement into ENG 099 or higher

2 lectures per week: 2 hrs credit

This course covers automotive repair shop operations including the use of flat rate manuals, repair and order writing, familiarization with manufacturer and company policies and procedures, and existing labor agreements.

AUTO 298

Internship Seminar

Prerequisite: 12 hrs in AUTO courses

1 lecture per week: 1 hr credit

This course is structured to enable interns to participate in group discussions on current automotive repair practices and experiences related to their internship studies. A written report of work related activities is required.

AUTO 299

Internship: Automotive

Prerequisite: 12 hrs in AUTO and consent of program coordinator

20 lab hrs per week: 2 hrs credit (variable hrs of credit)

This course provides on-the-job experience combined with supervision. It is designed to present service technicians with a performance view of the automotive service professions.

Biological Science

BIOL 100 (IAI: LI 900L)

General Education Biology

Prerequisite: Placement into ENG 099 or higher; placement into

MATH 090 or higher or completion of MATH 085 with a C or better

3 lectures, 2 lab hrs per week: 4 hrs transfer credit

This one-semester introductory course for non-science majors is designed to fill the general education requirement for life science with a laboratory. The course covers cell biology, genetics, evolution and diversity, plant and animal structure and functions, animal behavior, and ecology. Students cannot receive credit for both BIOL 100 and 112.

BIOL 103 (IAI: LI 901)

Plants and Society

Prerequisite: Placement into ENG 099 or higher; placement into

MATH 090 or higher or completion of MATH 085 with a C or better

3 lectures per week: 3 hrs transfer credit

This course emphasizes scientific inquiry through selected concepts in biology such as organization, function, heredity, evolution, and ecology. Topics include plant structure, growth, genetics, evolution, physiology, reproduction, and the economic importance and inter-relationships between plants and humans. This course is for non-majors.

BIOL 105 (IAI: LI 905)

Environmental Biology

Prerequisite: Placement into ENG 099 or higher; placement into

MATH 090 or higher or completion of MATH 085 with a C or better

3 lectures per week: 3 hrs transfer credit

A consideration of the timely and urgent problems of mankind of a biological nature: pollution of air and water, adverse effects of radiation and insecticides on the environment, overpopulation, food production, thermal pollution, noise pollution, and other related topics.

BIOL 106 (IAI: LI 906L)**Heredity and Society**

Prerequisite: Placement into ENG 099 or higher; placement into MATH 090 or higher or completion of MATH 085 with a C or better
3 lectures, 2 lab hrs per week: 4 hrs transfer credit

This course is an introduction to basic genetic principles and contemporary issues in biotechnology. The ethical, political, and social implications of biological advances in genetics are addressed.

BIOL 107 (IAI: LI 903)**Microbes and Society**

Prerequisite: Placement into ENG 099 or higher
3 lectures per week; 3 hrs transfer credit

This course focuses on microorganisms and introduces students to scientific inquiry by examining such biological concepts as organization, heredity, evolution, and ecology. It emphasizes the role of microorganisms on health and disease and their relevance to biotechnology and industry. The course also addresses the social and economic impact of microorganisms and their effects on health, sanitation, and agriculture.

BIOL 108**Essentials of Anatomy Physiology**

Prerequisite: Placement into ENG 099 or higher
4 lectures per week: 4 hrs transfer credit

The course involves the basic structure and function of the organs and systems of the human body. This one-semester lecture class is recommended for students in the Surgical Technology and Personal Trainer programs.

BIOL 111 (IAI: BIO 910)**Cellular and Molecular Biology**

Prerequisite: High school biology or BIOL 100 or BIOL 108 or BIOL 112 within the past 5 years with a C or better; placement into MATH 090 or higher or completion of MATH 085 with a C or better; placement into ENG 099 or higher
3 lectures, 3 lab hrs per week: 4 hrs transfer credit

This is a course designed for science and health majors. It provides an introduction to biochemistry, molecular genetics, cell structure, cell function, cellular process, and cell division. This course also includes an introduction to Mendelian inheritance and gene activity.

BIOL 112 (IAI: LI 900L; BIO 910)**Organismal Biology**

Prerequisite: Placement into ENG 099 or higher; placement into MATH 090 or higher or completion of MATH 085 with a C or better
3 lectures, 3 lab hrs per week: 4 hrs transfer credit

This is a course designed for science and health majors. It provides an introduction to the structure and function of microorganisms, fungi, plants, and animals. This course also includes an introduction to evolutionary and ecological principles. Students cannot get credit for both BIOL 100 and 112.

BIOL 115**Microbiology for Surgical Technologists**

Prerequisite: Admission to Surgical Technology program
4 lectures per week: 4 hrs credit

Students learn the impact of microbiology on the practice of aseptic technique and how to apply those principles in controlling infection in the operating room. The immune response, hypersensitivity, vaccines, common pathogens, and the process of infection also are addressed.

BIOL 120**Independent Studies in Ecology**

Prerequisite: Consent of instructor

15 lab hrs per week: 3 hrs transfer credit (variable credit)
This course is designed to allow students to obtain hands-on experience in the various phases of ecosystem restoration and preservation as well as in monitoring the factors involved in ecosystem functioning. Students inventory flora and fauna of ecosystems, monitor water and soil quality, and perform activities needed to maintain viable ecosystems. The course includes field work and writing reports on activities carried out in the field.

BIOL 211**Microbiology**

Prerequisite: BIOL 111 or CHEM 105 within the past 5 years with a C or better

3 lectures, 3 lab hrs per week: 4 hrs transfer credit
This is an introduction to the study of microscopic organisms, with an emphasis on bacteria. Special attention is given to their structure, physiology, and ecology. This course also includes an introduction to virology, medical parasitology, medical mycology, and immunological concepts. This course is especially beneficial for health profession majors because of the emphasis on the microbial role in the disease process focusing on the epidemiology, clinical manifestation, and treatment of microbial diseases.

BIOL 221**Human Anatomy and Physiology I**

Prerequisite: BIOL 111 or CHEM 105 within the past 5 years with a C or better

3 lectures, 2 lab hrs per week: 4 hrs transfer credit
This is part I of a two-semester sequence of study concerning anatomy and physiology of the human body. Part I includes the study of basic principles of chemistry, cell biology, cellular metabolism, and tissue histology. It also covers the integumentary system, skeletal system, muscle system, and the nervous system.

BIOL 222

Human Anatomy and Physiology II

Prerequisite: BIOL 221 within the past 5 years with a C or better

3 lectures, 2 lab hrs per week: 4 hrs transfer credit

This is part II of a two-semester sequence of study on the anatomy and physiology of the human body. It also covers senses, endocrine system, digestive tract, nutrition, metabolism, respiratory system, cardiovascular system, lymphatic system, urinary system, water and electrolyte balance, reproductive system, human growth and development, and human genetics.

BIOL 252

Molecular Genetics

Prerequisite: BIOL 111 with a C or better (within the past 5 years); MATH 095 with a C or better or qualifying score on placement test; placement into ENG 099 or higher

3 lectures per week; 3 hrs transfer credit

This course provides an introduction to the principles of genetics including Mendelian genetics, population genetics, evolutionary genetics, and mechanisms of gene regulation. There is an emphasis on use of molecular biology and genetics in biotechnology including: comparative genomics, drug development, microarray analysis, RNAi, and use of computer prediction and modeling tools.

Business

(See also Economics)

BUS 101

Introduction to Modern Business

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course is designed to provide an overview of business and the environment in which it operates. The topics studied include organization of business, business environment, management and organization of business, managing employees, marketing, financial management, information for business strategy, and special topics. Students develop a business plan.

BUS 103

Business Mathematics

Prerequisite: Math 085 with a C or better or qualifying score on the Math Placement Test

3 lectures per week: 3 hrs credit

This course emphasizes development of skill in handling the mathematics of business transactions in business and as consumers. Included are fundamental processes of percentage, discounts, profit and loss, net present value, annuities, simple and compound interest, and payroll taxes as well as depreciation and inventories.

BUS 105

Human Relations

Prerequisite: None

3 lectures per week: 3 hrs credit

This course teaches how to develop and maintain positive and productive relationships in the workplace. Students learn how, as managers, to provide a better quality of work life for employees. They also learn communication skills, how to conduct meetings, how to properly delegate, theories of motivation and leadership, and problem-solving skills.

BUS 107

Bookkeeping and Procedural Accounting

Prerequisite: None

3 lectures per week: 3 hrs credit

This course emphasizes how to keep records rather than how to analyze them. Work is devoted to developing procedures within the framework of acceptable accounting concepts. Students also acquire the vocabulary necessary to understand communications with others in the field.

BUS 109

Principles of Supervision

Prerequisite: None

3 lectures per week: 3 hrs credit

This course examines the principles of planning, organizing, directing and controlling the work of others by first-level managers. Real world applications and productivity are emphasized.

BUS 120

Sales

Prerequisite: None

3 lectures per week: 3 hrs credit

This course is a study of the sales process and the psychology involved in the sales process. Special emphasis is given to application of sales techniques and management of sales campaigns. Emphasis is also placed on student oral presentations and research.

BUS 127

Business Communications

Prerequisite: ENG 101 or consent of instructor

3 lectures per week: 3 hrs credit

This course offers a comprehensive study of the types of communications used in business with special emphasis on written communication. The course teaches how to write a business memo, letter, and report. Everything from layout to content is covered, as are such things as proper listening, semantics, and psychology of business communication, and tips which make writing easier and more professional.

BUS 131 (IAI: BUS 903)**Financial Accounting**

Prerequisite: Placement into ENG 099 or higher

4 lectures per week: 4 hrs transfer credit

This is an introduction to financial accounting and the communication of relevant information to external parties. It includes the development of the accounting model, internal control, measurement processes, data classification, and terminology. Interpretation and use of the resultant financial statements are emphasized. Sole proprietorships, corporations, service businesses, and merchandisers are covered. The additional feature of this course is the inclusion of computer applications.

BUS 132 (IAI: BUS 904)**Managerial Accounting**

Prerequisite: BUS 131

3 lectures per week: 3 hrs transfer credit

This is an introduction to managerial accounting emphasizing information required for internal decision making. The fundamentals of product costing, cost/volume/profit analysis, absorption costing, variable costing, budgeting, standard costs, variance analysis, cost control, responsibility accounting, short run decision analyses, capital budgeting, activity-based costing, just-in-time concepts, and quality management are included.

BUS 138**Accounting Software I**

Prerequisite: BUS 107 or BUS 131

1.5 lecture hrs per week: 1.5 hrs credit

This is an introductory course in the use of commercial microcomputer accounting software applications. General ledger, financial statements, customer, vendor, payroll, and inventory applications are included.

BUS 139**Accounting Software II**

Prerequisite: BUS 107 or 131

1.5 lecture hrs per week: 1.5 hrs credit

This course continues the study of commercial microcomputer accounting software applications. General ledger, financial statements, customer, vendor, payroll, and inventory applications are included.

BUS 165**Personal Asset Management**

Prerequisite: None

3 lectures per week: 3 hrs credit

This course is a study of investment vehicles and the securities market. The content includes a study of stocks, bonds, money market instruments, mutual funds, and real estate; what they are used for and how; why and when they should be traded; who should invest in them; how interest rates affect them; investment strategies; and how a portfolio should be managed. The course also informs students of their financial responsibilities, helps them to develop strategies for managing their debt, and explores skills for the wise use of credit.

BUS 170**Small Business Management**

Prerequisite: None

3 lectures per week: 3 hrs credit

This course provides a study of the steps in founding, organizing, financing, developing, operating, and managing a small business firm. The course also includes a study of the planning, budgeting, purchasing, inventory control, hiring, supervision, advertising, promotion, selling, record keeping, taxation, risk management, and other topics as they pertain to the small business firm.

BUS 201**Business Law**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course emphasizes the development of law and effects on transacting business. Specifically, it deals with settlement of disputes, torts, contract sales, product liability, and breach of contracts. Also included are agency and the duties and responsibilities of an agent contract.

BUS 209**Supervisors as Trainers**

Prerequisite: None

3 lectures per week: 3 hrs credit

This course presents principles, practices, and basic methods of instruction as related to business and industry. Emphasis is on the supervisor as a trainer.

BUS 210**Business Law and Its Environment**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course provides a broad and general overview of legal precepts concerning personal property and its liability, forms of business organization and the regulations governing them, and consumer protection as it affects business.

BUS 240 (IAI: MI 902; BUS 901)**Elementary Statistics**

Prerequisite: MATH 151 or qualifying score on Math Placement Test

4 lectures per week: 4 hrs transfer credit

This is an introductory course in probability and statistics. Topics covered include frequency distribution, percentiles, measures of central tendency, measures of dispersion, standard deviation, correlation, elementary probability, line of regression, statistical inference, the binomial distribution, the normal distribution, student t-distribution, and the chi-square distribution. Computer software such as MINITAB is used. A comprehensive project is assigned. Students who complete this course cannot also receive credit for BUS 240 or MATH 115. (same as MATH 153)

BUS 241

Principles of Management

Prerequisite: None

3 lectures per week: 3 hrs transfer credit

This course introduces the concept of the managerial functions in the modern business enterprise including the presentation and development of managerial principles in all activities, most specifically in the business enterprise. Basic management philosophies and theories are presented in relation to planning, organizing, staffing, directing, and controlling. Attention is given to basic management concepts and applications of motivation in the formal and informal organizational structures. Discussions and case studies are directed toward management theory and practice.

BUS 242

Human Resources Management

Prerequisite: None

3 lectures per week: 3 hrs transfer credit

Modern concepts of supervisory principles and practice are studied. Emphasis is on the human relations aspects of supervision, as well as on the functions of staffing, training, compensation, employee services, fringe benefits, health and safety, job evaluation, and industrial relations. Role playing and case studies supplement the course.

BUS 251

Principles of Marketing

Prerequisite: None

3 lectures per week: 3 hrs transfer credit

This survey course presents the concepts, principles and functions of marketing in the dynamic business and economic environment. Emphasis is on the understanding of channels of distribution, marketing costs, motivations, and pricing. Planning policies and strategies also are studied, and casework is used as a supplement.

BUS 261 (IAI: MC 912)

Advertising

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course is a survey of social and economic aspects of advertising, the advertising cycle, kinds of advertising, selection of media, costs, analysis of copy and displays, format, layout, labels, trademarks, slogans, campaigns, and measurement of results. Students prepare magazine and advertising copy.

BUS 298

Seminar

Prerequisite: Consent of Coordinator

1 lecture per week: 1 hr credit

This seminar is taken in conjunction with BUS 299, Internship. The content of the seminar relates to internship work which is correlated with students' fields of study.

BUS 299

Internship

Prerequisite: Consent of Coordinator

15 lab hrs per week: 3 hrs credit (variable credit)

The student internship allows students to earn variable amounts of college credits for managerial responsibilities while working in commerce or industry. A formalized work training program is structured to allow supervision by both the employer and the College's coordinator. The internship work should be directly related to students' fields of study.

CAD/Mechanical Design Technology

CADMD 141

Technical Drafting I

Prerequisite: None

2 lectures, 2 lab hrs per week: 3 hrs credit

A beginning course in drafting for students who have little or no drafting experience. Principal objectives are basic understanding of orthographic, isometric, and assembly working drawings; understanding the principles and applications of descriptive geometry; experience in using handbooks and other resource materials; and use of simplified drafting practices in industry. ASA standards are stressed. Interpretation of industrial sketches and prints is introduced to emphasize accepted drawing practices.

CADMD 201

Mechanical Layout and Design I

Prerequisite: CADMD 141

2 lectures, 2 lab hrs per week: 3 hrs credit

An advanced course in graphics for all students taking the mechanical design curriculum. The instructional unit provides experience in mechanical layout and design. Design problems require solution by math, graphics, and creative imagination. Experience also is given in industrial filing systems, engineering specifications, blueprint corrections, manufacturing processes, and other products.

CADMD 203

Statics and Strength of Materials

Prerequisite: TECH 109

4 lectures per week: 4 hrs credit

A study of the stress and deformation of mechanical parts and structural members. The properties of materials, the geometry of parts, and the type of loading are considered for the design of shafts, beams, columns, and welded joints based on both strength and stiffness requirements. Methods of analyzing force systems, shear and moment diagrams, and the concepts of deflections and moments of inertia on an area are also covered by the course. This course is calculator based.

CADMD 243 (IAI: IND 911)**Introduction to AutoCAD***Prerequisite: CADMD 141*

2 lectures, 2 lab hrs per week: 3 hrs transfer credit

This is an introductory course in Computer Aided Drafting (CAD). Through lecture and hands-on experience, students learn to use the most popular microcomputer CAD software, AutoCAD. Students learn basic CAD skills that enable them to produce mechanical drawings. Topics include: setting up AutoCAD, utility commands, drawing construction techniques, editing, display controls, layers, drawing aids, dimensioning, and plotting. Although there are no specific prerequisites, prospective students should have a working knowledge of IBM-compatible PCs, an understanding of plane geometry, and be able to deal with both common and decimal fractions.

CADMD 244**Intermediate AutoCAD***Prerequisite: CADMD 243*

2 lecture, 2 lab hrs per week: 3 hrs credit

This course is a continuation of CADMD 243. Students learn to use advanced AutoCAD commands to create complex mechanical drawings. The topics to be covered include: attributes and polylines, AutoCAD 3-D, customizing AutoCAD, and a brief intro to AutoLisp.

CADMD 245 (IAI: EGR 941)**Computer Aided Design***Prerequisite: CADMD 244*

2 lecture, 2 lab hrs per week: 3 hrs transfer credit

This is a course in Computer Aided Design for the advanced CAD user. Students learn to use a typical CAD system to design and analyze mechanical mechanisms. The course content stresses reinforcement of CAD capabilities covered in previous courses, creating AutoLisp programs using AutoCAD commands in AutoLisp, conditional and loop statements, and programming logic. Design concepts such as design automation and product design analysis are covered.

CADMD 246**Architectural Desktop***Prerequisite: CADMD 243*

1 lecture, 2 lab hrs per week: 2 hrs credit

This course teaches advanced CAD students to use Architectural Desktop software to create architectural drawings. It is not a course in architectural design. Students are expected to have previous AutoCAD experience and have a working knowledge of conventional architectural drawing techniques. Topics include creating typical architectural drawings such as floor plans, elevations, sections, and site plans.

CADMD 247**Mechanical Desktop***Prerequisite: CADMD 244*

1 lecture, 2 lab hrs per week: 2 hrs credit

This course teaches students to create mechanical designs using Autodesk's Mechanical Desktop software. Students who are already proficient in 2-D CAD learn to convert rough sketches into working solid model mechanical drawings.

CADMD 248**Introduction to Inventor***Prerequisite: CADMD 244*

1 lecture, 2 lab hrs per week: 2 hrs credit

This course is an introduction to Autodesk Inventor, which is an advanced 3-D parametric solid modeling system with surface modeling capabilities. Students learn to create solid parts, assemblies of solid parts, exploded presentations of assemblies and engineering drawings.

Chemistry**CHEM 105** (IAI: PI 902L)**Survey of General Chemistry***Prerequisite: MATH 090 with a C or better or qualifying score on Math Placement Test*

3 lectures, 3 lab hrs per week: 4 hrs transfer credit

This course includes the basic concepts of general chemistry such as nomenclature, mass relationships, solutions, acids and bases, and bonding. Students cannot receive credit for both CHEM 105 and 110.

CHEM 110 (IAI: PI 902L; CHM 911)**General Chemistry I***Prerequisite: MATH 095 with a C or better or placement in MATH 151 and high school chemistry*

4 lectures, 3 lab hrs per week: 5 hrs transfer credit

This is the first course of a two-semester sequence and is strongly recommended for all science majors and pre-engineering students. It includes the mole concept, bonding theory, formulas and equations, periodic classification of the elements, and physical properties of gases, liquids, solids, and solutions. Students cannot receive credit for both CHEM 105 and 110.

CHEM 130 (IAI: CHM 912)**General Chemistry II***Prerequisite: CHEM 110 with a C or better*

4 lecture, 3 lab hrs per week: 5 hrs transfer credit

This is the second course of the two-semester sequence and is strongly recommended for all science majors and pre-engineering students. This class includes a study of acids and bases, general equilibria, qualitative analysis, electrochemistry, oxidation reduction, general descriptive chemistry, thermodynamics, molecular structure, coordination compounds, and introduction to organic chemistry.

CHEM 203 (IAI: CHM 913)

Organic Chemistry I

Prerequisite: CHEM 130 with a C or better

4 lectures, 3 lab hrs per week: 5 hrs transfer credit

This course covers the properties, preparation, and reactions of aliphatic and aromatic compounds, alkenes, alkynes, alkyl halides and alcohols, mechanism of reactions, stereochemistry, infrared, and nuclear magnetic resonance spectroscopy.

CHEM 204 (IAI: CHM 914)

Organic Chemistry II

Prerequisite: CHEM 203 with a C or better

4 lectures, 3 lab hrs per week: 5 hrs transfer credit

The course focuses on interpretation of NMR, IR, and mass spectra, heterocyclic compounds, polymers.

College Skills

COL 100

Computer Skills for College Writing

Prerequisite: None

1 lecture per week: 1 hr transfer credit

This course is designed to teach the basic computer skills necessary to become successful writers in the college environment. Topics covered include computer skills, beginning word processing functions, the fundamentals of composing on the computer, and computer terminology. In addition, students learn the basics of the Internet, including using the Prairie State College e-mail system and WebAdvisor.

COL 101

First Year Seminar

Prerequisite: None

1 lecture per week: 1 hr transfer credit

The purpose of this course is to provide an opportunity for students to learn and adopt methods that promote success in college. Students learn about the challenges and choices they face as college students as they set education and career goals, explore their values and decision-making skills, learn study strategies, and develop an appreciation for diversity. Students complete a master academic plan.

COL 102

Career Development Seminar

Prerequisite: None

1 lecture per week: 1 hr transfer credit

This course provides the opportunity to explore career interests, skills, abilities, and work-related values. Topics include the nature of various careers, labor market trends, job search strategies, education and training requirements, and diversity in the workplace. Students learn to develop a career and educational plan based upon informed career decisions.

COL 105

Personal Awareness

Prerequisite: None

1 lecture per week: 1 hr transfer credit

The focus of this course is to help each individual assess his or her personal resources and communication styles and then set realistic goals. Students examine their own values, interpersonal relationships, emotions, decision-making processes, motivations, etc. Various personal growth theories also are explored. Emphasis is placed on the application of these characteristics and theories to help students obtain and maintain positive control over their lives and lifestyles.

COL 106

Personal Wellness

Prerequisite: None

1 lecture per week: 1 hr transfer credit

This course is designed for those who want to improve their choice of lifestyle relative to personal responsibilities, balance, and personal enhancement of physical, mental, and spiritual health. The course also assists individuals in making voluntary behavior changes which reduce health risks and enhance individual productivity.

COL 107

More Brothers and Scholars

Prerequisite: COL 105 and instructor consent

2 lab hours per week; 1 hour transfer credit

This course provides students instruction and experience in the development and implementation of individual projects, including virtual, community and on-campus activities.

Communication

COMM 101 (IAI: C2 900)

Principles of Communication

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This is a course in the theory and practice of interpersonal, group, and public communication. Emphasis is placed on the speaker's confidence, audience adaptation, discovery of ideas, organization, and delivery. Students are given opportunities to improve their speaking and critical listening skills.

COMM 102

Persuasive Public Speaking

Prerequisite: COMM 101

3 lectures per week: 3 hrs transfer credit

This course develops one's ability to formulate, construct, deliver, receive, and analyze formal and informal persuasive messages. It is primarily a speaking course with an emphasis on the discovery of multiple methods for designing messages that evoke change in society.

COMM 103**Group Discussion**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course examines the nature of small group discussion. Topics include defining problems, preparation, process, leadership, participation, types and forms of discussion, and evaluation. Students practice techniques of effective group discussion.

COMM 108**Interpersonal Communication**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course explores one-to-one, face-to-face communication through experience, theory and skill application. Communication in family, work, and social contexts are examined. Stress is placed on satisfying individual needs, functioning in appropriate roles, resolving conflicts, and communicating effectively.

COMM 111 (IAI: MC 911)**Introduction to Mass Communication**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course provides an overview of the nature, functions and responsibilities of the mass communications industry in a global environment with an emphasis on the media's role in American society.

COMM 115 (IAI: MC 914)**Introduction to Broadcasting**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This is a beginning course in broadcasting. An understanding of the historical development, theory, writing, broadcasting, and engineering is stressed.

COMM 196**Applied Forensics I**

Prerequisite: Placement into ENG 099 or higher

2 lab hrs per week: 1 hr transfer credit

This course provides instruction and experience on speech competition, including participation in a variety of competitive speech events. Students enrolled in this course are automatically part of the Forensics Team.

COMM 197**Applied Forensics II**

Prerequisite: COMM 196

2 lab hrs per week: 1 hr transfer credit

Continuation of COMM 196.

COMM 198**Applied Forensics III**

Prerequisite: COMM 197

2 lab hrs per week: 1 hr transfer credit

Continuation of COMM 197.

COMM 199**Applied Forensics IV**

Prerequisite: COMM 198

2 lab hrs per week: 1 hr transfer credit

Continuation of COMM 198.

Computer Electronics Technology

CET 101**Fundamentals of Electricity**

Prerequisite: None

2 lectures per week: 2 hrs credit

This is an introductory course in the fundamentals of electricity. The nature of voltage, current, resistance, and power are studied. Students analyze, calculate, measure, and wire parameters of electrical devices and circuits. Included are series, parallel, and combination circuits.

CET 103**Alternating Current**

Prerequisite: CET 101

2 lectures per week: 2 hrs credit

This is a fundamental course in alternating current theory and analysis. Students analyze, calculate, measure, and wire circuits and electrical parameters involving transformers, relays, inductors, capacitors, series and parallel alternating current circuits.

CET 114**Digital Fundamentals**

Prerequisite: None

4 lectures per week: 4 hrs credit

This is an introductory course in digital systems. Numbering systems and codes are introduced along with logic representation, and combination digital logic circuits. Logic gates, logic families, and interfacing of components are studied. Related circuitry is wired and analyzed.

CET 203**Instrumentation Fundamentals**

Prerequisite: CET 101

4 lectures per week: 4 hrs credit

This course is a study of electronic instrumentation with applications to the control of industrial processes. Topics include measuring instruments, an introduction to process control, transducers, controller principles, and control elements.

CET 211

Communication Electronics

Prerequisite: CET 103

4 lectures per week: 4 hrs credit

This course is a continuation of electronic studies extending into communications applications. Topics include feedback, oscillators, modulation, demodulation, R.F. amplification, wave propagation, wave transmission, and wave radiation. Analysis techniques are extended from the time domain to frequency domain.

Criminal Justice Services

CJ 101 (IAI: CRJ 901)

Introduction to Criminal Justice

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This is a survey and analysis of the criminal justice system, including an historical and philosophical overview of its development, with special emphasis on the system's primary components, and the relationship of these components in the administration of criminal justice in the United States.

CJ 102 (IAI: CRJ 912)

Introduction to Criminology

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course is an introduction to the multidisciplinary study and analysis of the nature, causes and control of crime in America. The measurement of crime and the interactive roles of the system, victim, offender, and society also are covered.

CJ 103

Law Enforcement Organization and Administration

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course focuses on the principles of organization and management as applied to law enforcement agencies. Topics covered include concepts of organization behavior, formulation of policy and procedure, and coordination of operational units.

CJ 106 (IAI: CRJ 911)

Introduction to Corrections

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

An overview and analysis of the American correction system is presented, including the history, evolution, and philosophy of punishment and treatment. The operation and administration of criminal justice in both institutional and non-institutional settings is covered. Current issues in correctional law also are presented.

CJ 110

Community-Based Policing

Prerequisite: CJ 101

3 lectures per week: 3 hrs credit

The philosophical and practical applications of community based policing are presented.

CJ 120

Introduction to Homeland Security

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course examines the programs and activities that have been implemented to improve the safety of our country. Special emphasis is placed on the threat of terrorism and strategies to address that threat. (same as FST 121)

CJ 201

Introduction to Criminal Law

Prerequisite: CJ 101

3 lectures per week: 3 hrs transfer credit

This course examines and analyzes the structure and functions of substantive criminal law. The principles of criminal law are presented, including the acts, mental state, and attendant circumstances that are necessary elements of the crime.

CJ 203

Principles of Criminal Investigation

Prerequisite: CJ 101

3 lectures per week: 3 hrs credit

This course covers the fundamentals and procedures of investigation including applications of deductive and inductive reasoning, and other investigative techniques; collection, marking and preservation of evidence suitable for court presentation; due process; and techniques and procedures of follow-up investigation.

CJ 204 (IAI: CRJ 914)

Juvenile Justice

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

The history and philosophy of society's reaction to juvenile behavior and problems are covered. The interaction among the police, judiciary and corrections systems are examined within the context of cultural influences. Theoretical perspectives of causation and control are examined.

CJ 207**Street Law: Understanding Law and Legal Issues**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course will cover the evaluation, debate, and critical analysis of law and legal issues that affect individuals, their families, and their communities. Students will learn about practical aspects of civil, criminal, constitutional, family, immigration, and consumer law in a diverse society with an orientation toward civic involvement in the local community.

CJ 208**Principles of Criminalistics**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course covers the application of the natural and physical sciences to crime solutions in law enforcement. All aspects of crime scene processing including evidence recognition, collection, protection and transmission, examination and evaluation of physical evidence, and identification and comparison of crime laboratory procedures are included. The role of the crime laboratory in modern law enforcement also is studied.

CJ 270**Computer Forensics**

Prerequisite: CJ 101 or ITPRG 140

2 lectures, 2 lab hrs per week: 3 hrs credit

This course provides an introduction to computer forensics, preparing students to acquire and analyze digital crime evidence. Students learn tools and techniques for conducting digital investigations, preserving evidence, and preparing expert witness testimony. Topics include file structures, data recovery, forensic analysis, e-mail, and network investigations, and ethics.

CJ 299**Criminal Justice Internship**

Prerequisite: Consent of program coordinator.

1 lecture, 10 lab hrs per week: 3 hrs credit

Students are assigned to a criminal justice agency for supervised exposure to the various aspects of a working agency. Students spend a minimum of 10 hours per week on-site and one hour per week in a seminar setting.

Dental Hygiene**DH 101****Histology**

Prerequisite: Consent of program coordinator

2 lecture hrs per week: 2 hrs credit

A basic course in the minute structural and functional units of living tissue. This course provides sufficient knowledge of that part of the body whose healthful condition is the particular responsibility of the dental hygienist.

DH 103**Head and Neck Anatomy and Tooth Morphology**

Prerequisite: Consent of program coordinator

3 lectures, 4 lab hrs per week: 5 hrs credit

This course provides a detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth. The study of the anatomical structure of the head and neck region of the human body will serve as a foundation of anatomical knowledge that is essential for patient care, understanding function, oral pathology, local pain, and the administration of anesthesia.

DH 104**Dental Radiology**

Prerequisite: DH 103

2 lectures, 4 lab hrs per week: 4 hrs credit

This in-depth introduction to dental radiography concentrates on the history and characteristics of radiation in dentistry, technical aspects of radiation production, computerized digital radiography, and the components and functions of the dental X-ray machine. Hazards, safety precautions, and infection control are covered. Intraoral techniques, landmarks, processing of radiographs, and the mounting and viewing of films are emphasized. Regulations and management of clients with special needs are covered. Students assess clients, complete treatment plans, and perform a required number of examinations and radiographic surveys on manikins and selected clients in a laboratory setting. Students are responsible for client recruitment.

DH 105**Nutrition**

Prerequisite: DH 101

2 lectures per week: 2 hrs credit

This seminar provides a comprehensive review of the role of nutrients in the biological development of health and disease. Attention is given to process of assimilating nutritional information and making it applicable to the clinical setting. Special emphasis will be placed on methods of controlling dental disease.

DH 106**General and Oral Pathology**

Prerequisite: DH 101

2 lectures per week: 2 hrs credit

This course serves as an introduction to general pathology as it relates to oral pathological conditions. It discusses the pathogenesis, clinical appearance, and treatment of the more commonly seen conditions, as well as the sequence of events necessary for differential diagnosis. It discusses the role of the dental hygienist as part of the health care team in identifying, treating, and preventing oral diseases, as well as systemic diseases with oral complications.

DH 107

Fundamentals of Dental Hygiene

Prerequisite: Consent of program coordinator

1 lecture, 2 lab hrs per week: 2 hrs credit

This is the first in a series of five clinical dental hygiene courses. The fundamentals course is designed for entry-level, first year dental hygiene students. The role and function of the dental hygienist in preventative dentistry is included. The foundation of knowledge in the practice of dental hygiene, the Prairie State College Dental Hygiene conceptual framework and program competencies are introduced. This knowledge provides an introduction to the theory associated with clinical procedures and patient care. Students are introduced to the operation of the dental equipment, infection control, and basic instrumentation.

DH 108

Clinical Dental Hygiene I

Prerequisite: DH 107

2 lectures, 8 lab hrs per week: 4 hrs credit

This course offers an opportunity to develop competency in fundamental clinical skills in preparation for client treatment. The introduction of basic instrumentation principles and skills essential to assessment, planning, treatment, and evaluation of client care are emphasized. Focus on clinical procedures for patient assessment will include infection control, health history, extra and intraoral examination, gingival evaluation, and periodontal assessment. Students will practice on mannequins and partners in order to develop their skills.

DH 109

Clinical Dental Hygiene II

Prerequisite: DH 108

2 lectures, 8 lab hrs per week: 4 hrs credit

This course is a continuation of the emphasis of the role of the dental hygienist as a preventative oral health care provider. Lecture and clinical experience is devoted to analyzing assessment and the decision process in the implementation of the process of care. Students will begin utilizing their clinical skills in providing comprehensive care to clients in an ethical manner. Topics will include non-surgical periodontal supportive procedures such as documentation, calculus, instrumentation, and extrinsic stain removal and caries management.

DH 116

Periodontology

Prerequisite: DH 107

2 lectures per week: 2 hrs credit

This course emphasizes, but is not limited to, the study of periodontal tissues in relation to etiology, pathogenesis, disease classification, critical analysis of patient assessment and rationale for therapy, using current theories of treatment and prognosis possibilities in the content of clinical practice.

DH 120

Care of Special Populations

Prerequisite: DH 108

2 lectures per week: 2 hrs credit

This course emphasizes care of clients with special oral and general systemic conditions. Included are people with physical, mental, social/emotional, and selected medical conditions, as well as the elderly and medically compromised. An interdisciplinary, problem-solving teaching strategy provides a comprehensive, coordinated approach to dental care for individuals with special needs.

DH 201

Clinical Dental Hygiene III

Prerequisite: DH 109

1 lecture, 4 lab hrs per week: 3 hrs credit

Lecture and clinical experience focus on the implementation of the process of care on clinical clients in the dental hygiene clinic. Students are introduced to additional non-surgical periodontal procedures in order to provide comprehensive client centered care. These include ultrasonics, pain control and introduction to tobacco cessation. Portfolio development is introduced to document the achievement of the dental hygiene program competencies.

DH 202

Clinical Dental Hygiene IV

Prerequisite: DH 201

1 lecture, 16 lab hrs per week: 5 hrs credit

This course continues to build students' knowledge and competence in providing the process of care to clients in the dental hygiene clinic. Students will utilize didactic and previous clinical experience in order to provide comprehensive dental hygiene care to clients with simple to complex needs. Emphasis on the development of critical thinking skills will be encouraged in order to provide efficient and effective patient centered care. Additional non-surgical periodontal therapies will be introduced.

DH 203

Clinical Dental Hygiene V

Prerequisite: DH 202

1 lecture, 16 lab hrs per week: 5 hrs credit

This is a continuation of advanced didactic and clinical application of the process of care on clients in the dental hygiene clinic. Students will continue to refine their clinical skills to gain competency as they make the transition into the practice of dental hygiene. Advanced theory introduced will enable the student to expand dental hygiene care.

DH 204**Ethics, Law, and Administration***Prerequisite: DH 202*

2 lectures per week: 2 hrs credit

This course, in addition to the areas of ethics and jurisprudence, examines the economics of dentistry, dental office management, employment considerations, resume preparation, and job interviewing. Emphasis is placed on the laws governing the practice of dentistry and dental hygiene, moral standards, and the ethical standards established by the dental hygiene profession. Practice settings for the dental hygienist, office operations, and preparation for employment are included.

DH 205**Pharmacology***Prerequisite: DH 109*

2 lectures per week: 2 hrs credit

This course presents a study of drugs by groups, with special consideration of those used in dentistry, including their physical and chemical properties, dosage, and therapeutic effects.

DH 207**The Science and Application of Dental Material***Prerequisite: DH 201*

2 lectures, 4 lab hrs per week: 4 hrs credit

This course covers the basic science, clinical indications, manipulative variables and procedures, physical and mechanical characteristics and clinical performance of materials used in dentistry. Lecture and laboratory emphasizes an understanding of the science of dental materials, which is essential to assess patient needs, to plan for and treat those needs, and to evaluate treatment outcomes.

DH 220**Community Dental Health***Prerequisite: DH 201*

2 lectures per week: 2 hrs credit

Students learn the history and influence of public health concepts and practices on the dental hygiene profession. The theory, functions, services, and administration of public health organizations are summarized. Students use research tools and statistical analysis to review and interpret dental scientific literature. Field experience is emphasized in the form of dental health presentations that are developed by students and shared in diverse communities.

Drafting**DRAFT 101****Drafting Essentials***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course provides an introduction to blueprint reading and drafting which includes class exercises in interpreting lines, view positions, conventions, and standards found on prints; use of drawing tools, simple geometric construction, fundamentals of orthographic construction, use of finish symbols, and the application of scale and precision dimensioning.

DRAFT 102**Drafting Conventions and Symbols***Prerequisite: DRAFT 101*

2 lectures per week: 2 hrs credit

This course introduces the notation used on detail and assembly drawings. In addition, assembly and detail drawings are used to illustrate print identification, holes, sections, tapers, and castings. Emphasis is placed on reading shop prints.

DRAFT 103**Three Dimensional Shapes***Prerequisite: DRAFT 102*

2 lectures per week: 2 hrs credit

This course employs pictorial drawings to enable practice in three dimensional visualization interpretation, the accuracy of such interpretation being determined by the clay models students produce.

DRAFT 105**Design Applications for Mechanical Trades***Prerequisite: AMATH 101*

2 lectures per week: 2 hrs credit

This course deals with the application of geometry and trigonometry to fundamental design problems in the mechanical trades. The areas of instruction include such topics as: computing pulley distances, finding patch diameter, finding the chord length on a bolt hole pattern, determining diameter given part of a circle, and determining fillet radius.

DRAFT 115**Blueprint Reading for Mechanical Trades***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course in blueprint reading emphasizes the sketching and reading of mechanical drawings. Topics include sketching of machine parts, common notations, fits and finish marks, threads and tapers, sectioning, isometric, and oblique drawings.

DRAFT 116

GD&T Application and Interpretation

Prerequisite: Draft 115 with a C or better recommended

4 lab hours per week: 2 hrs credit

This course provides the student with all of the elements in order to apply geometric dimensioning and tolerance standards and practices for the interpretation of advanced manufacturing drawings.

Early Childhood Education

ECED 103

Health, Safety, and Nutrition

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course focuses on the personal health of the child and covers nutrition and safety issues. It meets the State of Illinois teacher certification requirement in health and general education.

ECED 104

Introduction to Early Childhood Education

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This overview of early childhood care and education includes basic values, structure, organization, and programming in early childhood education. A clinical component of 15 hours is required.

ECED 105

Creative Activities for Children

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course introduces the theoretical framework for creativity and creative activities in the early childhood classroom and provides an overview of the developmental stages in children's creative growth. Students explore art, music, creative movement and drama curriculum for young children.

ECED 108

Science and Math for the Young Child

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This is a methods course introducing the theory and practice of teaching science and mathematics to young children. It focuses on developing a curriculum that emphasizes discovery methods of teaching and learning. It also includes model activities and instructional materials.

ECED 110

Care and Education: Infants, Toddlers, Two Year Olds

Prerequisite: ED 101

3 lectures per week: 3 hrs credit

This course provides an overview of developmentally appropriate infant, toddler, and 2-year old programs. Students focus on practices that foster children's well-being, and on creating a curriculum and environment that supports physical and social growth and good communication with parents. Ten hours of supervised experience in a classroom for infants, toddlers or two year old children is required.

ECED 115

Observation and Assessment of Young Children

Prerequisite: ED 101

3 lectures per week: 3 hrs credit

This course explores developmentally appropriate, culturally responsive observation and assessment strategies for studying the physical, cognitive, social, and emotional development of young children. Students will develop skill in using systematic observation and documentation techniques and understand the relationship between careful observation, assessment, and effective interaction with children. Field observations are a critical component of this course.

ECED 120

Child, Family, and Community

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course examines ways in which the structure, values, and resources of family and community affect children. It explores the relationships between the child, family, community, and educators including parent education and involvement, family and community lifestyles, child abuse, and current family life issues. (same as EDU 120)

ECED 130

Guidance and Classroom Management

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course examines guidance practices and classroom management techniques with the aim of analyzing and modifying classroom behavior. The relationships between observation and effective interaction, classroom arrangement and teaching techniques is explored so students have the chance to apply child development theory to practical situations. (same as EDU 130)

ECED 150**Introduction to Early Childhood Center Administration - Legal Requirements**

Prerequisite: Placement into ENG 099 or higher

1 lecture per week: 1 hr credit

This course addresses legal responsibilities of a director of an early childhood center. Its focus is legal and licensing requirements of the Illinois Department of Children and Family Services.

ECED 151**Introduction to Early Childhood Center Administration - Program Operations**

Prerequisite: Placement into ENG 099 or higher

1 lecture per week: 1 hr credit

This course provides an introduction to the daily operations of a child care center. It focuses on current early childhood administrative practices, including child attendance safety, fiscal responsibilities such as report development and cash flow management, and mechanisms for communicating with parents.

ECED 152**Introduction to Early Childhood Center Administration - Facilities Management**

Prerequisite: Placement into ENG 099 or higher

1 lecture per week: 1 hr credit

This course provides an introduction to the daily management of child care center facilities. It focuses on current early childhood administrative practices including maintenance of a healthy facility, food service supervision, and organization of educational materials.

ECED 201**Sign Language I—Manual Communications I**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course is an introduction to sign language and deaf culture covering basic American sign language skills, both receptive and expressive. Course focus is on building sign vocabulary, fingerspelling, grammar and syntax rules as well as developing awareness of the deaf community.

ECED 202**Sign Language II—Manual Communications II**

Prerequisite: ECED 201

3 lectures per week: 3 hrs transfer credit

This is a continuation of Sign Language I. It explores deaf culture, and introduces intermediate American sign language skills, both receptive and expressive. The course focuses on increasing sign language vocabulary, improving fingerspelling fluidity, and furthering knowledge of grammar and syntax.

ECED 205**Language Arts for Children**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course focuses on teaching methods that foster the development of language in the young child, and explores the role of the teacher in creating an effective language arts curriculum. Students learn how to incorporate activities and materials that enhance the development of language and literacy. (same as EDU 205)

ECED 213**Multicultural Education**

Prerequisite: Placement into ENG 099 or higher

3 lab hrs per week: 3 hrs credit

Multicultural education examines social factors that affect education decision-making and student achievement in United States schools. It addresses the need for intercultural competence, culturally informed instructional strategies, promotion of social justice, and reduction of racism in order to create democratic classrooms. (same as EDU 213)

ECED 214**Administration of Early Childhood Education Centers**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course is for teachers or directors of early childhood centers who wish to improve their skills in administration and supervision, and for those who want to become directors. Students explore licensing and accreditation standards, management processes including fiscal and legal guidelines, and staff management and supervision.

ECED 217**Administration of Early Childhood Education Centers - Personnel, Families and Children**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course is for teachers or directors of early childhood centers who wish to improve skills in center administration and for those who want to become directors. It focuses on the knowledge and skills needed to manage and provide mentoring and supervision for personnel and work effectively with diverse families and children. Early childhood leadership skills and child advocacy are an important part of the course.

ECED 218

Administration of Early Childhood Education Centers - Practices and Procedures

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course is for teachers or directors of early childhood centers who wish to improve their skills in center administration and for those who want to become directors. The course covers the management of early childhood centers, center fiscal and legal structures, space planning and development, and marketing.

ECED 219

Applied Early Childhood Center Administration

Prerequisite: ECED 217 with a grade of C or better; ECED 218 with a grade of C or better

3 lectures per week: 3 hrs credit

This course focuses on the management and leadership responsibilities of an early childhood administrator. Students are expected to apply knowledge and skills gained in prerequisite courses. Inquiry-based projects will allow students to find realistic solutions for meeting the challenges of an administrative position. Students will work closely with local child care centers.

ECED 251

Curriculum Design for Early Childhood Programs

Prerequisites: ED 101 and ECED 104 or instructor consent

3 lectures per week: 3 hrs credit

This course examines the principles that guide the planning, implementation, and evaluation of developmentally appropriate curriculum. It addresses goals and lesson plans; emerging curricula; scheduling; room arrangement and learning centers; materials and equipment; individual, small, and large group activities; and the teacher's role in developing curricula for an inclusive program that promotes cultural diversity. Ten hours of supervised experience in a program for young children is required.

ECED 297

Early Childhood Education Internship II

Prerequisite: ED 101 and ECED 104

2 lectures per week, 2 lab hrs: 3 hrs credit

Students in this class participate in an early childhood education and care job or special project under faculty supervision. Students use knowledge and practice skills gained in early childhood courses and training. Students may pursue a current educational topic or demonstrate understanding of early childhood education concepts. This course includes a combination of lecture and lab hours. It may be taken for variable credit, one to three credit hours. Students may enroll up to two times.

ECED 298

Administration of an Early Childhood Center Internship

Prerequisite: ECED 217 with a grade of C or better; ECED 218 with a grade of C or better

20 lab hrs per week: 3 hrs credit

Students participate in an approved early childhood education center where they gain knowledge and skills through hands-on participation with the center's administrative team. Students spend 20 hours per week at the internship site, and their work is evaluated by a faculty supervisor.

ECED 299

Early Childhood Education Internship

Prerequisite: ED 101 and ECED 104 and consent of instructor

1 lecture, 10 lab hrs per week: 3 hrs transfer credit

This course includes participation in the Prairie State College Children's Learning Center under faculty supervision. Students use knowledge and practice skills gained in early childhood education courses as they spend a minimum of 10 hours per week in the center. The course includes a one hour per week seminar that gives students a chance to discuss and review the internship experience.

Economics

ECON 201 (IAI: S3 901)

Macroeconomic Principles

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course provides an understanding of the structure, institutions, and general economic principles governing the operation of the American economy. Included are a study of the basic economic concepts and theories, and the forces which determine the level of production and employment in the economy. The basic principles of money and banking, economic growth and development and the world economy, and a study of the role that monetary and fiscal policy play in the determination of the economy's level of production, employment and income are presented.

ECON 202 (IAI: S3 902)

Microeconomic Principles

Prerequisite: ECON 201

3 lectures per week: 3 hrs transfer credit

This course examines factors that determine the structure of resource and product markets, consumer choice, the sources that determine the level of production and employment in individual industries, and the factors which govern the level of price and output at which individual firms choose to operate. Attention is given to a study of international economics and certain contemporary economic problems.

Education

ED 100

Foundations of American Public Education

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course is an overview of American education as both a profession and a public enterprise. The social, historical, and philosophical foundations are used to give perspective to an examination of current issues, policies and trends in the field of education, including cultural diversity and the standards movement. The organization and structure, financing, and curriculum issues in education are also discussed. A clinical component of 15 hours is required.

ED 101

Child Growth and Development

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This is a foundation course in the theories and principles of child growth and development from the prenatal through the adolescent years. It is an in-depth study of physical, cognitive, language, and social-emotional development. There is a special emphasis on the application of this knowledge in planning, implementing, and assessing student activities.

ED 160

Technology for Teachers

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course introduces educators to the use of the computer as an educational tool. The course focuses on a solid understanding of educational technology, and how to integrate computers into the classroom curriculum. Hands-on technology activities are an important part of the course. Students begin to develop their teaching portfolios. (same as ITAPP 160)

ED 212

Exceptional Child

Prerequisite: ED 101

3 lectures per week: 3 hrs transfer credit

This course provides an overview of children with exceptional cognitive, physical, social, and emotional characteristics. It includes an analysis of developmental and emotional needs imposed by exceptionality. Students consider identification protocols, intervention strategies, and teaching methods and programs designed to meet the needs of exceptional children (including but not limited to children with learning disabilities). Applicable federal and state laws and requirements are covered including the Individuals with Disabilities Education Act, Americans with Disabilities Act, Individualized Family Service Plan, Individualized Education Plan and inclusive programs. This course fulfills the requirements of School Code, Article 21-2a. A clinical component of 15 hours is required.

ED 220

Children's Literature

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course focuses on the importance of children's literature from preschool to adolescence and its enjoyment at home and in the classroom. Through reading a varied selection of books, students learn to evaluate, select, discuss, and use literature for children. It is recommended for teachers, aides, librarians and parents. (same as ENG 220)

Education – Paraprofessional

EDU 111

Mathematics for Paraprofessionals

Prerequisite: MATH 085 or placement into MATH 090

3 lectures per week: 3 hrs credit

This course is designed for the elementary school paraprofessional. This course strongly emphasizes hands-on learning; thus, manipulatives are used extensively. Topics covered include problem solving, sets, number theory, statistics, probability, geometry, and measurement. Students seeking general education mathematics credit for transfer are advised to register for the MATH 200/206 sequence. (same as MATH 111)

EDU 120

Child, Family, and Community

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course examines how the structure, values, and resources of family and community affect children. It explores the relationships between the child, family, community, and educators including parent education and involvement, lifestyles, child abuse, and current family life issues. (same as ECED 120)

EDU 130

Guidance and Classroom Management

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course examines guidance practices and classroom management techniques with the aim of analyzing and modifying classroom behavior. The relationships between observation and effective interaction, classroom arrangement and teaching techniques is explored so students have the chance to apply child development theory to practical situations. (same as ECED 130)

EDU 205

Language Arts for Children

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course deals with techniques and methods of encouraging the development of language in the young child. Methods for stimulating speech, discussion, and increasing vocabulary are included. (same as ECED 205)

EDU 213

Multicultural Education

Prerequisite: Placement into ENG 099 or higher

3 lab hrs per week: 3 hrs credit

Multicultural education examines social factors that affect education decision-making and student achievement in United States schools. It addresses the need for intercultural competence, culturally informed instructional strategies, promotion of social justice, and reduction of racism in order to create democratic classrooms. (same as ECED 213)

EDU 221

Clinical Experience

Prerequisite: Consent of program coordinator

5 lab hrs: 1 hr credit

This course provides documented clinical experiences involving observation of the interaction between children and practitioners according to specified guidelines, within the appropriate subject matter and age category. Clinical sites are arranged in a variety of educational settings, including those with diverse student populations. Student work is planned, guided, and evaluated by a mentor or supervisor.

Electrician

ELECT 101

Fundamentals of Electricity I

Prerequisite: COMPASS Reading score of 60 or above

2 lectures per week: 2 hrs credit

This is an introductory course in direct current electricity. Students analyze series, parallel, and combination circuits using Kirchoff's current and voltage laws, electrical measuring instruments, and measurement techniques. Students verify basic principles of electricity in the laboratory.

ELECT 102

Fundamentals of Electricity II

Prerequisite: ELECT 101 with a C or better; AMATH 101 or equivalent recommended

2 lectures per week: 2 hrs credit

This course is a more in-depth look at the fundamentals of electricity. Fundamental electric laws and relationships are studied. Electrical calculations and measurements are emphasized. Series, parallel, and combination circuits are analyzed.

ELECT 103

Alternating Current

Prerequisite: ELECT 101; AMATH 106 with a C or better or equivalent recommended

2 lectures per week: 2 hrs credit

This is a fundamental course in alternating current theory and analysis. Students analyze circuits that include series and parallel configuration of resistance, inductance, and capacitance. The analysis includes vector operations, complex impedance, phase angles, single- and three-phase representations, Delta circuits, and Wye circuits.

ELECT 105

Power, Transformers, Polyphase Circuits

Prerequisite: ELECT 101 with a C or better

2 lectures per week: 2 hrs credit

This course includes the study of the principles of transformer operation including on load conditions, efficiency, and testing. Polyphase principles are studied including calculation techniques, measurement, and power relationships.

ELECT 106

DC Motors and Generators

Prerequisite: ELECT 101 with a C or better

2 lectures per week: 2 hrs credit

This course is a study of DC generators and motors. Topics covered include the construction, basic principles, speed-voltage characteristics, and regulation of DC generators. Also covered are basic principles, speed-torque characteristics, types of field excitation, and starting procedures of motors.

ELECT 107

AC Motors and Generators

Prerequisite: ELECT 103 with a C or better

2 lectures per week: 2 hrs credit

This course is a study of AC generators and motors. The topics covered include the construction, basic principles, speed-voltage characteristics, and regulation of AC generators. Also covered are basic principles, speed-torque characteristics, types of field excitation, and starting procedures of motors. Single- and poly-phase generators, motors, and switching equipment are covered.

ELECT 108

Electrical Control for Machines I

Prerequisite: ELECT 101 with a C or better

2 lectures per week: 2 hrs credit

This is a course in industrial controls which are frequently used in industry to control motors. Single- and three-phase systems are covered. Industry standards and codes are presented throughout for promoting an understanding of safety and preventive maintenance. Practical experiences include wiring relays, motor starters, and controlling these with different control devices and sensors.

ELECT 109

Electrical Control For Machines II

Prerequisite: ELECT 108 with a C or better

2 lectures per week: 2 hrs credit

This course is a continuation of ELECT 108. Industry controls which are frequently used in industry to control motors are analyzed. Single- and three-phase systems are covered. Industry standards and codes are presented throughout for promoting an understanding of safety and preventive maintenance. Practical experiences include wiring motor starters, control transformers reversing and motor sequencing, and controlling these with various control devices and sensors.

ELECT 110**DC Crane Control**

Prerequisite: ELECT 101 or equivalent

2 lectures per week: 2 hrs credit

This course is designed to train and aid in the maintenance of overhead cranes powered by direct current motors. Servicing and troubleshooting techniques are taught by referring to the electrical diagrams provided by crane control manufacturers.

ELECT 111**Electronic Principles I**

Prerequisite: AMATH 101 or equivalent recommended

2 lectures per week: 2 hrs credit

This is a course in electronic devices covering the principles of how electronic devices work and how they are connected into basic electronic circuits. The content includes introductory analysis of device parameters and circuit application.

ELECT 112**Electronic Principles II**

Prerequisite: ELECT 111 with a C or better

2 lectures per week: 2 hrs credit

This is a course in electronic devices covering the bipolar and field effect basic theory, transistor biasing, and amplification. The SCR is also studied. The course includes an introduction to digital logic.

ELECT 113**Print Reading for Electricians**

Prerequisite: None

2 lectures per week: 2 hrs credit

This course provides students with a background in reading and interpreting blueprints and wiring diagrams pertaining to single-family dwellings, commercial locations, industrial locations, special and hazardous locations. Students are exposed to the National Electrical code and the use of electrical tables.

ELECT 114**National Electrical Code**

Prerequisite: None

2 lectures per week: 2 hrs credit

This course is a review of the National Electrical Code, and the areas to which it is most frequently applied are covered in detail. Topics covered include: maximum current for each wire size, overcurrent protection, wiring methods and materials, motor controllers, transformers, switchboards, and emergency systems.

ELECT 120**Electrical Safety**

Prerequisite: None

2 lectures per week: 2 hrs credit

This course covers the basic electrical dangers and safety precautions that should be observed when working with electricity or electrical circuits. Safety procedures are emphasized along with the purpose of fuses, circuit breakers, disconnect boxes, insulation, and grounding.

ELECT 141**Conduit Bending - Thinwall**

Prerequisite: None

2 lectures per week: 2 hrs credit

This course teaches how to calculate and bend one-inch and 3/4-inch EMT conduit for electrical use.

ELECT 142**Conduit Bending and Threading**

Prerequisite: None

2 lectures per week: 2 hrs credit

This course teaches how to calculate and bend and thread rigid conduit and how to thread thickwall conduit for electrical use.

ELECT 150**Preventive Maintenance - Electrical**

Prerequisite: ELECT 108 with a C or better

2 lectures per week: 2 hrs credit

This course in methods of preventive maintenance of electrical equipment includes insulation testing and evaluation, electronic testing, AC generator and motor checking, overcurrent protection, and system distribution problems.

ELECT 159**Electrical Wiring I**

Prerequisite: ELECT 101 with a C or better

2 lectures per week: 2 hrs credit

This course is an introduction to residential and commercial wiring and assumes no previous electrical wiring background. The course is designed to help develop a basic understanding of the electrical principles involved in wiring as well as physical wiring practices.

ELECT 160**Electrical Wiring II**

Prerequisite: ELECT 159 with a C or better

2 lectures per week: 2 hrs credit

This is a continuation of Electrical Wiring I. It focuses on the technical skills required to perform electrical installations, including calculating circuit sizes, voltage drops, ampacity, conductor/raceway sizing, and determining service entrance requirements, as well as grounding/bonding procedures to include physical wiring practices.

ELECT 201

Digital Fundamentals I

Prerequisite: ELECT 112 with a C or better

2 lectures per week: 2 hrs credit

This course in digital systems is an introduction to number systems and codes, logic gate representation, and combinatorial logic circuits.

ELECT 202

Digital Fundamentals II

Prerequisite: ELECT 201 with a C or better

2 lectures per week: 2 hrs credit

This course in digital systems is a continuation of ELECT 201 advancing into the study of counters, registers, integrated circuit logic, logic families, interfacing, and memory devices.

ELECT 203

Industrial Electronics I

Prerequisite: ELECT 101 and 112 with a C or better

2 lectures per week: 2 hrs credit

This course is a study of the underlying concepts and operation of electronic devices, circuits, and systems used in industrial control. Concepts instead of design topics are emphasized.

ELECT 204

Industrial Electronics II

Prerequisite: ELECT 203 with a C or better

2 lectures per week: 2 hrs credit

This course is a continuation of the study of underlying concepts and operation of electronic devices, circuits, and systems used in industrial control. Concepts instead of design topics are emphasized.

ELECT 206

Instrumentation Fundamentals I

Prerequisite: ELECT 101 with a C or better

2 lectures per week: 2 hrs credit

This course is a study of electronic instrumentation with applications to the control of the industrial processes. Topics covered include an introduction to process control, transducers, controller principles, and control elements.

ELECT 207

Instrumentation Fundamentals II

Prerequisite: ELECT 206 with a C or better

2 lectures per week: 2 hrs credit

This course is a continuation of ELECT 206 and covers instrumentation applications to the process control.

ELECT 208

Programmable Logic Controllers I

Prerequisite: None

2 lectures per week: 2 hrs credit

This is a course that studies programmable controller operations as used in industry. This course is based on the principle that the technician must understand programmable controller terminology as well as relationships of the input/output, processor section, programmable devices, memory, and interfacing sections of the programmable controller. The use of ladder diagrams and programming techniques are explained along with the programmable controller versatility to control integrated processes.

ELECT 209

Programmable Logic Controllers II

Prerequisite: ELECT 208 with a C or better

2 lectures per week: 2 hrs credit

This course is a continuation of Programmable Logic Controllers I. Students continue to learn more programming techniques as well as manipulation of data, such as data comparison, connection of peripheral devices, and controller logic and hardware troubleshooting. Certain brand-name programmable controllers are identified and used. Practical wiring, troubleshooting, and programming of a particular model programmable controller are emphasized.

ELECT 230

Alternative Small Energy Systems

Prerequisite: ELECT 105 and ELECT 106

2 lectures per week: 2 hrs credit

This course introduces nontraditional small electrical energy systems and develops an understanding of various alternative energy generation methods, principles and role of the technician.

ELECT 290

Special Topics in Electricity

Prerequisite: Consent of program coordinator

3 lectures per week: 3 hrs credit (variable credit offered; may be repeated for credit 3 times with different topics)

Topics pertaining to current and emerging technology in electricity are covered. Content and format of this course is variable and may be initiated by company training needs, updates in technology in the electrical field, and the need to adhere to rules such as the revisions that occur in the National Electrical Code. Subject matter is indicated in the class schedule.

ELECT 298**Electrical Seminar**

Prerequisite: Completion of 24 credits of ELECT courses and the consent of program coordinator

1 lecture per week: 1 hr credit

This seminar is taken in conjunction with ELECT 299-Internship. The content of the seminar relates to the internship work which is correlated with students' fields of study.

ELECT 299**Electrical Internship**

Prerequisite: Completion of 24 credits of ELECT courses and the consent of program coordinator

10 lab hrs per week: 2 hrs credit

Student interns are assigned to an approved training site.

This is scheduled by joint agreement of the student, the site supervisor, and the program coordinator. Students must also register for ELECT 298 - Electrical Seminar.

Emergency Medical Services

(including First Responder)

EMS 101**Emergency Medical Technician**

Prerequisite: 18 years of age and COMPASS reading score of 78 or better or placement in ENG 101. Immunizations, CPR certification.

Obtain information packet from Prairie State College Nursing department prior to start of course. Must enroll in person

6 lectures, 2 lab hrs per week: 7 hrs credit

Care, handling, and extrication of the critically ill and injured is taught. Emphasis is on the development of student skills in recognition of symptoms of illnesses and injuries, and proper emergency care and procedures. Subjects covered include the human body, cardiac arrest, resuscitation, fractures, injuries, childbirth, lifting and moving patients, and extrication from automobiles.

EMS 200**Paramedicine I**

Prerequisite: BIOL 221, 222 with C or better; concurrent enrollment in EMS 205, 210, and 215; consent of instructor

12 lectures per week: 12 hrs credit

This course introduces the field of paramedicine. Students study the roles and responsibilities of the pre-hospital care provider; medical/legal issues, ethics, principles of pathophysiology, pharmacology, medication administration, airways management and ventilation, patient assessment, trauma, and gynecological and obstetrical emergencies. Skill acquisition is integrated into the course of study.

EMS 205**Paramedicine: Field Practicum I**

Prerequisite: Concurrent enrollment in EMS 200, 210, and 215

8 lab hrs per week: 2 hrs credit

This course allows students opportunities to perform or observe assessments and procedures learned in the classroom in a pre-hospital setting under the supervision of a licensed paramedic. Students focus on trauma, acute/chronic illness, and life threatening emergencies of various etiologies. They function as team members while riding with the assigned ALS unit.

EMS 210**Paramedicine: Hospital Practicum**

Prerequisite: Concurrent enrollment in EMS 200, 205, and 215

8 lab hrs per week: 2 hrs credit

This course allows students opportunities to perform or observe assessments and procedures learned in the classroom in various departments within a hospital setting. Students focus on trauma, acute/chronic illness, and obstetrics. They function as team members in the respective hospital units. Upon successful completion of the required activities and skill sets, students are able to advance to the Paramedicine II course and the final program practicums.

EMS 215**Paramedicine: Seminar I**

Prerequisite: Concurrent enrollment in EMS 200, 205, and 210

1 lecture hour per week: 1 hour credit

This course is designed to provide students with an opportunity to discuss their first-semester field and hospital-based experiences. It provides a forum to help insure the successful transition to the work world. Previously determined topics are discussed that go beyond the scope of the core curriculum. Students present small group projects based on real-world issues in pre-hospital care to the class that involve both written and oral communication skills.

EMS 220**Paramedicine II**

Prerequisite: EMS 200, 205, 210, 215 with a C or better

12 lectures per week: 12 hrs credit

This course is a continuation of Paramedicine I. Students study medical emergencies including, but not limited to: cardiac, neurology, endocrinology, allergies and anaphylaxis, gastrointestinal disorders, urinary and renal disorders, toxicology, hematology and environmental conditions, infectious and communicable diseases, and psychiatric disorders. Additionally, students focus on the use of the intravenous route of administration in all its forms, pharmacology, and life span considerations from neonatal, to pediatrics and through gerontological considerations.

EMS 225

Paramedicine: Field Practicum II

Prerequisite: Concurrent enrollment in EMS 200, 230, and 235

8 lab hrs per week: 2 hrs credit

This course is a continuation of Field Practicum I. Students perform or observe assessments and procedures learned in the classroom in a pre-hospital setting under the supervision of a licensed Paramedic. This practicum focuses more heavily on care of the cardiac client and the standard medical orders related to the treatment of cardiac conditions. Related to treatment of cardiac conditions, students function as team members while riding with the assigned advanced life support (ALS) unit. This course must be completed successfully in order to be eligible to write the state licensure exam.

EMS 230

Paramedicine: Leadership Practicum

Prerequisite: Concurrent enrollment in EMS 220, 225, and 235

8 lab hrs per week: 2 hrs credit

This course focuses on the management and leadership responsibilities of a professional paramedic. Students have a project based experience that introduces the paramedic to the role of instructor, EMS coordinator, quality assurance manager, and the like. Students observe and assist various individuals who function in a management or leadership role in emergency pre-hospital care or the education of pre-hospital care providers. Assignments reflect hands-on experience related to the preceptor's daily responsibilities. This experience also includes observational and hands-on experience with end-of-life and pastoral care.

EMS 235

Paramedicine: Seminar II

Prerequisites: Concurrent enrollment in EMS 220, 225, and 230

1 lecture hour per week: 1 hour credit

This course is designed to provide students with an opportunity to discuss field and hospital-based experiences they encounter during the final semester of their core curriculum. It provides a forum to help insure the successful transition to the work world. Previously determined topics are discussed that go beyond the scope of the core curriculum. Students present group projects to the class that deal with leadership or staff development topics. This presentation requires the use of several instructional methodologies that match the topic being presented.

FRESP 101

First Responder

Prerequisite: Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course provides students with the knowledge and skills necessary in an emergency to sustain life, reduce pain, and minimize the consequences of injury or of sudden illness until advanced medical help can arrive.

English

(including Literature)

ENG 098

Foundations of College Writing

Prerequisite: Qualifying score on English Placement Test (COMPASS)

4 lectures per week: 4 hrs non-degree, non-transfer credit
(may be repeated two times)

This course reviews basic writing and grammar. Emphasis is placed on generating, organizing, and supporting ideas in writing, and on communicating clearly by avoiding common errors with words and sentences. By writing short essays, students learn to combine clear, correct sentences into a coherent, organized whole.

ENG 099

Strategies for College Reading and Writing

Prerequisite: ENG 098 and RDG 098 with a C or better or qualifying score on English and Reading Placement Test

3-6 lectures per week depending on placement:
3-6 hrs non-degree, non-transfer credit depending on Reading placement score (may be repeated two times)

This course is designed to equip students with the critical inquiry and writing skills necessary to succeed in college-level courses. Through prewriting, writing, and rewriting essays, students learn to combine clear, correct sentences into a coherent, organized whole, reflecting critical understanding of assigned texts.

ENG 100

Academic English Review

Prerequisite: Placement into ENG 099 or higher

1 lecture per week; 1 hour non-degree, non-transfer credit
This course provides a review of sentence-level skills necessary for academic writing and other correspondence. Discussions concentrate on detecting and editing grammatical issues in short and long forms of traditional academic writing. Each lesson focuses on common errors, and gives examples of and suggests strategies for these errors. The course is ideal for all students wishing to update their technical writing skills.

ENG 101 (IAI: CI 900)

Composition I

Prerequisite: ENG 099 with a C or better or qualifying score on English Placement Test

3 lectures per week: 3 hrs transfer credit

This is the first course in the composition sequence. It provides an introduction to college writing, emphasizing how students can incorporate and respond to texts in their own essays. Students will develop strategies for creating, organizing, and revising their writing, and explore the range of ways language is used in the academic and professional worlds. Students will also practice identifying aspects of effective writing in professional and peer essays. Students write a minimum of five essays with extensive revisions.

Note: Students must produce a passing portfolio and receive a course grade of "C" or better in order to pass the course.

ENG 102 (IAI: CI 901R)**Composition II**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This is the second course in the composition sequence. It builds on skills acquired in English 101 and gives special attention to the research paper. Writing activities include both short forms and longer forms of traditional academic writing, including critical essays and a documented research paper.

ENG 110**Creative Writing: Poetry**

Prerequisite: ENG 101 with a C or better or consent of instructor

3 lectures per week: 3 hrs transfer credit

Students write poetry in a variety of genres, learn the structure and elements of poetry and the writing process, and demonstrate an understanding of the critical terminology of the creative writer.

ENG 111**Creative Writing: Nonfiction Prose**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

Students study the elements of nonfiction and the critical terminology of the creative writer, and produce fully developed works of nonfiction. Students explore themselves, their identity, and their world through writing autobiography, family history, and observations on culture, places, and time periods.

ENG 211 (IAI: H3 914)**American Literature I**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course studies American literature from the pre-colonial period to the Civil War and includes the style, techniques, and themes of the major writers responsible for shaping the traditions of American literature. Emphasis is on understanding major literary movements in their intellectual, social, and political contexts.

ENG 212 (IAI: H3 915)**American Literature II**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course is a study of American literature from the Civil War to the present. Emphasis is placed on the peculiarly American as well as universal themes which recur throughout poetry, drama, short stories, and novels of major American writers. Major literary movements are studied in relation to intellectual, social, and political contexts.

ENG 215 (IAI: H3 910D)**African-American Literature**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This survey course examines the varieties of the Black experience in America as it is found in poetry, the novel, the short story, and drama. Particular emphasis is placed on trends and themes as revealed in changes in style and content.

ENG 220**Children's Literature**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course focuses on the importance of children's literature from preschool to adolescence and its enjoyment at home and in the classroom. Through reading a varied selection of books, students learn to evaluate, select, discuss, and use literature for children. It is recommended for teachers, aides, librarians, and parents. (same as ED 220)

ENG 221 (IAI: H3 903)**Introduction to Poetry**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

Students read and enjoy poetry of various types and periods. Through close reading of selected poems, students learn to appreciate the beauty and art of poetry and its relevance to their own lives and emotions.

ENG 231 (IAI: H3 912)**British Literature I**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course surveys British literature from its Anglo-Saxon beginnings through 18th-century Neoclassicism. Writers and their works are studied in relation to their intellectual, social, and political contexts.

ENG 232 (IAI: H3 913)**British Literature II**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course surveys British literature from 1800 to the present with an emphasis on major literary movements understood in relation to their intellectual, social, and political contexts.

ENG 240 (IAI: H3 901)**Introduction to Fiction**

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course is an introduction to fiction with special emphasis on understanding and appreciation of the short story. The primary focus is on developing students' ability to read critically, to learn about the principal literary elements of fiction, and to improve writing skills through the use of literature as subject matter.

ENG 243 (IAI: H3 908N)

Non-Western Literature In English

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course examines non-Western literature written during the twentieth century. Emphasis is placed on understanding the works both as part of local and global aesthetic traditions and within their intellectual, political, social, and historical contexts.

ENG 252 (IAI: H3 902)

Introduction to Drama

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course emphasizes drama as literature and studies plays of various genres from a variety of literary periods. Eight to ten plays are analyzed in terms of meaning, form, and value.

ENG 256 (IAI: HF 908)

Film and Literature

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course examines the formal, thematic, and historical relationships between literature and film, and includes an examination of the adaptations and influences that demonstrate the strengths of each artistic medium.

ENG 261 (IAI: H3 906)

Western/World Literature I

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course surveys masterpieces of Western/World literature from the beginnings in the ancient world through the 16th century. Themes of major writers are explored through consideration of their lives and work in the context of their times.

ENG 262 (IAI: H3 907)

Western/World Literature II

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course surveys masterpieces of Western/World literature from the 17th, 18th, 19th, 20th, and early 21st centuries. Writers and their works are discussed within the context of their times.

ENG 271 (IAI: H3 905)

Introduction to Shakespeare

Prerequisite: ENG 101 with a C or better

3 lectures per week: 3 hrs transfer credit

This course includes selected sonnets of Shakespeare and six-eight of his plays: representative selections from the comedies, tragedies, historical dramas, and romances. Emphasis is on the dramatic and literary qualities of the works, but attention also is given to film versions of the plays.

Engineering

ENGR 210 (IAI: EGR 942)

Engineering Statics

Prerequisite: PHYSI 210 with a grade of C or better

3 lectures per week: 3 hrs transfer credit

This is a course in theory and applications of mechanics to engineering problems. The course studies rigid bodies at rest or moving with a constant velocity. Topics include vector operations, particle statics, rigid body equilibrium, distributed forces and centroids, analysis of structures, moments of inertia, virtual work, and friction.

ENGR 211 (IAI: EGR 943)

Engineering Dynamics

Prerequisite: ENGR 210 with a grade of C or better

3 lectures per week; 3 hrs transfer credit

This is a course in theory and application of mechanics to engineering problems. The course studies rigid bodies in an accelerated motion. Topics include particle kinematics, kinetics, work, energy, momentum, planar rigid-body kinematics, and vibration.

Fire Science Technology

FST 101

Introduction to Fire Science Technology

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course is an introduction to fire science technology programs. Topics covered include the history of fire service; objectives, roles, and responsibilities of the fire service and its personnel; accountability and liability. An overview of the educational requirements of EMS certification and recertification systems, and the role of the Office of the State Fire Marshal and National Fire Protection Association are discussed.

FST 102

Fire Prevention Principles I

Prerequisite: FST 101 or FST 119 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

The emphasis of this course is on objectives and techniques of fire prevention programs. Included among the topics are building and electrical codes, zoning controls and other prevention standards, evaluation of fire hazards, and techniques for inspecting various types of buildings. Basic blueprint reading and sketching are also covered.

FST 104**Fire Tactics and Strategy I**

Prerequisite: FST 119 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course is an introduction to the basic principles and methods associated with fireground tactics and strategy as required by the company officer. It emphasizes size-up, fireground operations, prefire planning, and basic engine and truck company operations. Included are a survey of fire apparatus and equipment, its operation, the distribution of equipment and personnel, and preplanning of fireground operations.

FST 105**Construction and Fire Systems**

Prerequisite: Placement into ENG 099 or higher; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course is an analysis of various methods of building design, construction, and materials. Fire-resistant features of materials, life safety methods of construction, and an introduction to building codes are included. An in-depth study of automatic extinguishing and detection systems with emphasis on automatic sprinkler equipment is covered. Also included are water spray, foam, carbon dioxide, and dry chemicals, stand pipe systems, and protection systems for special hazards.

FST 106**Hazardous Materials Operations**

Prerequisite: FST 119 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course identifies the competencies required of the first responder at the operational level responding to hazardous materials incidents. Included are the skills and techniques required to reduce and prevent the possibility of accidents, injuries, disabilities, and fatalities during response to hazardous materials.

FST 119**Basic Firefighter Operations**

Prerequisite: 18 years of age and COMPASS reading score of 78 or better or placement into ENG 101; and documented affiliation with a fire department. Students must enroll in person.

6 lectures, 2 lab hrs per week: 7 hrs credit

This course equips students with basic knowledge and skills in areas such as fire behavior, equipment use, firefighter safety, rescue, and prevention. After successful completion of this course, students are eligible to write the State Fire Marshal Certification Exam. This program meets National Fire Protection Association (NFPA) standards.

FST 120**Firefighter III**

Prerequisite: Current Illinois Firefighter II certification. Coordinator consent required; and documented affiliation with a fire department.

5 lectures, 2 lab hours per week; 6 hours credit

This course builds on the foundation material learned in FST 119 Firefighter II and provides students with more in-depth understanding of topics such as fire department organization, fire behavior, safety issues, rescue techniques, public education and inspections. This course prepares students to sit for the State Fire Marshal's exam for Firefighter III and Rescue Awareness certification.

FST 121**Introduction to Homeland Security**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

This course examines the programs and activities that have been implemented to improve the safety of our country. Special emphasis is placed on the threat of terrorism and strategies to address that threat. (same as CJ 120)

FST 201**Arson Investigation**

Prerequisite: FST 101 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course acquaints students with basic investigative techniques used in examining an arson case from its origin to a successful conclusion in the court system. It covers such topics as motives for arson, determining origin, scientific aids in investigation, interviews, statements, reports, interrogation, and presentation of the case in court. The course is of particular significance for firefighters, police, and insurance investigators.

FST 202**Vehicle and Machinery Operations**

Prerequisite: FST 119 with a C or better; and documented affiliation with a fire department.

2 lectures, 2 lab hrs per week: 3 hrs credit

This course provides information on extrication and rescue of victims from vehicles involved in accidents. Emphasis is placed on equipment and techniques used in hazardous rescue operations.

FST 204**Fire Tactics and Strategy II**

Prerequisite: FST 104 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course covers advanced principles and methods associated with the fire ground strategies, and tactics required of the multi-company officer or chief officer. It emphasizes multi-company alarm assignments, handling disasters, and major fire incidents by occupancy classification.

FST 205

Hazardous Materials Technician A

Prerequisite: FST 106 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

Methods of developing preplans for use by local departments are covered. Identification of hazards in communities and the designing of functional highway, rail, and industrial preplans to fit community needs are discussed.

FST 207

Fire Department Management I

Prerequisite: FST 119 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course covers responsibilities of fire service of various ranks. Included are qualifications and sources of authority, role of the company officer, and basic management theories, practices, and functions. This is one of two management courses required of eligible candidates pursuing Illinois Fire Marshal certification as a Fire Officer I.

FST 208

Fire Department Management II

Prerequisite: FST 207 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course is an introduction to the elements of management as they apply to fire department administration. Included are principles of management, communication, and group dynamics as they relate to the company officer. This is the second of two management courses required of eligible candidates pursuing Illinois State Fire Marshal certification as a Fire Officer I.

FST 209

Fire Prevention Principles II

Prerequisite: FST 102 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

The emphasis of this course is on public relations and inspection techniques and procedures. The course covers evaluation of fire hazards, inspection techniques, procedures for conducting inspection, record-keeping procedures, arson investigation, and on-site field inspections.

FST 210

Fire Apparatus Engineer

Prerequisite: FST 119 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course is designed to train Illinois fire service personnel to the Certified Fire Apparatus Engineer level. Based on State Fire Marshal standards, this course emphasizes terminology, preventive maintenance, pumps, pump controls, water supply, calculations, operations, supply and support of sprinklers and standpipe systems, foam and specialized equipment, pumping apparatus tests, and troubleshooting problems that occur during pump operations.

FST 212

Fire Service - Instructor I

Prerequisite: FST 119 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course is designed to meet the needs of firefighters wishing to expand their fire science knowledge in the area of instruction. It provides basic information about human relations in the teaching-learning environment, instructional methodologies, and techniques used in developing lesson plans.

FST 213

Fire Service - Instructor II

Prerequisite: FST 212 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course is a continuation of Fire Service - Instructor I. It provides basic information on program management, program development, lesson plan development, instructional development, and techniques used to create evaluation instruments.

FST 218

Fire Department Management III

Prerequisite: FST 208 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course covers principles and techniques used by mid-level managers and chief officers in fire service. Principles of time management, decision-making, motivation, and delegation are emphasized. This is one of two management courses required of eligible candidates pursuing Illinois certification as a Fire Officer II.

FST 219

Fire Department Management IV

Prerequisite: FST 218 with a C or better; and documented affiliation with a fire department.

3 lectures per week: 3 hrs credit

This course covers the techniques used by mid-level managers and chief officers in fire service. Principles of time management, decision-making, motivation, and delegation are emphasized. This is the second of two management courses required of eligible candidates pursuing Illinois certification as a Fire Officer II.

First Responder

(See Emergency Medical Services)

Geography

GEOG 101 (IAI: S4 900N)

Cultural Geography

Prerequisite: Placement into ENG 099 or higher

3 lectures per week; 3 hrs transfer credit

This social sciences course explores the global diversity of cultures and the fundamental role played by place in shaping human behavior. Course topics include: globalization, population, environment, cultural identity, landscapes, economic development, political geography, and urbanization.

GEOG 105 (IAI: PI 909)

Introduction to Physical Geography

Prerequisite: Placement into ENG 099 or higher

3 lectures per week; 3 hrs transfer credit

This is a non-lab physical science course emphasizing the physical aspects of the Earth's environment. Topics surveyed include weather, climate, water, and geologic processes. The distribution of geographic features around the world is studied. Emphasis is on the relationships between human society and the physical environment.

Geology

GEOLO 101 (IAI: PI 907L)

Physical Geology

Prerequisite: Placement into ENG 099 or higher

3 lectures, 2 lab hrs per week; 4 hrs transfer credit

Physical geology is a general education course which introduces basic geologic principles. It examines processes that have shaped the Earth including plate tectonics, earthquakes, volcanoes, mountain building, minerals, rocks, water, and glaciers. Laboratory work and field trips emphasize these topics and the scientific method.

GEOLO 201

Earth Science Research

Prerequisite: Completion of at least 1 college-level science course; instructor consent; placement into ENG 099 or higher.

10-20 lab hrs per week; 1-2 cr transfer hrs (variable credit)

This course will allow students to conduct independent research in a variety of Earth Science fields including geology, climatology, meteorology, and environmental science. Students will make field observations and develop and test related hypotheses. The course includes field work, writing professional reports, and presenting results at appropriate venues.

Graphic Communications

(See also Art and Photographic Studies)

GC 115

Introduction to Computer Art

Prerequisite: Placement into ENG 099 or higher

6 lab hrs per week; 3 hrs transfer credit

This studio course introduces students to the history and use of computer applications in the visual arts. Students learn to generate, combine, and manipulate traditional and contemporary visual ideas using both raster paint/photo retouching programs and professional quality vector drawing programs. (same as ART 115)

GC 151

Principles of Graphic Design

Prerequisite: GC 115 or ART 115 or concurrent registration

6 lab hrs per week; 3 hrs transfer credit

Students are introduced to theoretical and practical aspects of visual communication. Techniques, processes, and terminology of graphic design are covered.

GC 154

Typography

Prerequisite: GC 151

1 lecture, 2 lab hrs per week; 2 hrs credit

This course investigates the effective use of type in visual design. Students experiment with the creation of original fonts using digital applications along with some traditional methods.

GC 156

Design Software Workshop: Special Topics

Prerequisite: Placement into ENG 099 or higher

1 lecture, 2 lab hrs per week; 2 hrs credit (may be repeated 3 times)

This course provides orientation, concentration, and practical application of a specific computer imaging software programs. Each workshop features one of six leading software packages identified by graphic design professionals.

GC 160

Design for Publishing

Prerequisite: GC 115 or ART 115

1 lecture, 4 lab hrs per week; 3 hrs credit

This course focuses on design opportunities in publishing and teaches students how to develop newsletters, ads, catalogs, and presentations.

GC 162

Introduction to Web Site Development

Prerequisite: Placement into ENG 099 or higher

1 lecture, 4 lab hrs per week: 3 hrs transfer credit

This course introduces professional Web site creation and management using basic features of Web design software. Students apply basic principles of mass communication; translate copy, sound, and still and moving images into the Web environment; use design principles to develop story boards, site maps, and navigation structures; and upload and maintain a Web site. Web-related legal and ethical issues are covered.

GC 171

Illustration

Prerequisite: GC 151 (recommended)

1 lecture, 4 lab hrs per week: 3 hrs credit

Offered fall term only

In this studio environment students learn to draw controlled illustrations with confidence. Emphasis is placed on perception and rendering ability, with a variety of techniques and media. Digital and traditional media are used.

GC 175

2D Animation

Prerequisite: GC 115 or ART 115

1 lecture, 4 lab hrs per week: 3 hrs transfer credit

This course introduces the concepts, processes, and history of animation and covers both traditional and two-dimensional computer-based animation techniques. It incorporates the use of drawn, vector and bit-mapped formats as a means of generating animated sequences.

GC 177

3D Animation

Prerequisite: ART 101 or GC 115 or ART 115

1 lecture, 4 lab hrs per week: 3 hrs credit

This course teaches the fundamental techniques of computer animation in a 3D environment. Specific animation features and functions of the software will be discussed and applied to the creation of short 3D animation sequences.

GC 262

Flash/Interface Design

Prerequisite: GC 151 and ITWEB 103 or GC 162; placement into ENG 099 or higher

1 lecture, 4 lab hrs per week: 3 hrs credit

This studio course develops students' understanding of interactive Web and interface design with an understanding of graphic design and interface design principles. Students develop an integrated and consistent interface for a Web site using graphic programs including, but not limited to, Dreamweaver, Flash, and Photoshop. Students practice extensive use of scripting and programming with an emphasis on using professional design techniques and standards. Sound, video, animation, and interactivity are combined in interactive work. The primary emphasis of this course is development of students' portfolios. Writing appropriate to the profession is required.

GC 265

Interactive Design Project

Prerequisite: GC 162

1 lecture, 4 lab hrs per week: 3 hrs credit

This course develops students' ability to work as part of a creative team. Students develop a group multimedia project using professional management techniques and standards. Sound, video, animation, and interactivity are used to create an interactive work. This is a studio course in which the primary emphasis is development of a student's portfolio.

GC 270

Advanced Web Site Development

Prerequisite: GC 162 or ITWEB 103

2 lecture, 2 lab hrs per week: 3 hrs credit

This course teaches students advanced Web site development techniques including CSS layout techniques, interactivity with AJAX and the Spry framework, advanced navigation and dropdown menus, image manipulation, and Web site development deployment and management.

GC 287

Professional Design

Prerequisite: GC 160

1 lecture, 4 lab hrs per week: 3 hrs credit

This course concentrates on advanced projects in computer image manipulation and design with emphasis on quality print output, film recording, and other methods of production. Use of flatbed and film scanner techniques are also covered.

GC 298

Independent Visual Study

Prerequisite: GC 151; consent of instructor

1 lecture, 4 lab hrs per week: 3 hrs credit

This course is an investigation of independent visual problems as they relate to student-generated projects which require advanced research and development.

GC 299

Internship/Seminar

Prerequisite: Minimum 12 credit hrs in ART, GC; consent of instructor

1 lecture, 15 lab hrs per week: 4 hrs credit (variable credit)

This internship and seminar provides an opportunity for students to earn credit while working in a graphic design related area. Formalized student-employer agreements identify objectives, work plan, and guidelines for evaluation.

Health

HLTH 100

Orientation to Health Careers

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

Students will learn about health care systems and the various health care careers available as well as qualities needed to be a health care worker. Medical terminology, anatomy and physiology, health promotion, and disease prevention are stressed.

HLTH 101

Health and Wellness

Prerequisite: Placement into ENG 099 or higher

2 lectures per week: 2 hrs transfer credit

This course offers a study of the physical and mental workings of the body in sickness and in health. It provides information on topics related to mental and physical health such as holistic health, stress management, fitness, nutrition, lifestyle choices, diseases, and related issues.

HLTH 102

Workplace Issues for Allied Health

Prerequisite: Placement into ENG 099 or higher

1 lecture per week: 1 hr credit

Workplace issues in Allied Health are examined. Emphasis is on communication, stress management, negotiating within organizational structures, power, and dealing with life/death situations.

HLTH 105

General Medical Terminology

Prerequisite: Placement into ENG 099 or higher

1 lecture per week: 1 hour credit

This course provides a foundation in the structure of common medical terms, relating word elements to specific organs of the body, and identifying commonly used medical abbreviations. It is designed for students seeking admission to health career programs or working in medical settings. Applicants for surgical technology and paramedicine programs should take SRT 100.

Heating, Ventilation, Air-Conditioning, and Refrigeration

HVACR 101

Fundamentals of Refrigeration

Prerequisite: None

2 lectures per week: 2 hrs credit

This course covers the basic principles and theory of refrigeration. Topics include refrigeration cycle, compressors, condensers, evaporators, and metering devices. Safe and efficient use of tools and brazing techniques in the installation of copper tubing and piping are also introduced.

HVACR 102

Advanced Refrigeration

Prerequisite: HVACR 101

2 lectures per week: 2 hrs credit

This course focuses on the basic refrigeration cycle, system components, and applications. Special emphasis is given to temperature controls, installation techniques, testing, servicing, charging, and location of refrigeration troubles.

HVACR 103

Air Conditioning

Prerequisite: HVACR 102, 107, 108

2 lectures per week: 2 hrs credit

Topics covered in this course include basic air conditioning theory and principle, air conditioning systems, psychrometric properties of air, process and human comfort load analysis, load calculation, and equipment selection.

HVACR 104

Advanced Air Conditioning

Prerequisite: HVACR 103, 108

2 lectures per week: 2 hrs credit

This course provides an in-depth understanding of the air conditioning system, components and their applications. Special emphasis is given to maximizing system operations which includes mechanical and electrical installation, service repair, and troubleshooting.

HVACR 105

Heating System Applications

Prerequisite: HVACR 104, 108

2 lectures per week: 2 hrs credit

This course is an introduction to gas heating equipment which includes theory of gas combustion, venting, operation and efficiency of heating units; servicing and repairing mechanical and electrical components; and proper installation of units.

HVACR 107

Electrical Control Applications

Prerequisite: None

2 lectures per week: 2 hrs credit

This course covers the practical study of electricity as it applies to the servicing and installation of refrigeration, air conditioning, and heating equipment, with emphasis on electrical safety, meters, and circuits.

HVACR 108

Advanced Controls

Prerequisite: HVACR 107

2 lectures per week: 2 hrs credit

This course covers the installation, diagnosis and servicing of the electrical systems used in split residential and small commercial air conditioning, heating and refrigeration systems. Emphasis is placed on the advanced control system needed to achieve total comfort and safety.

HVACR 109

Installation and Service of HVACR Systems

Prerequisite: HVACR 104, 105, 108

2 lectures per week: 2 hrs credit

This course covers the proper procedures used during the installation and servicing of residential and commercial air conditioning, heating, and refrigeration equipment. Emphasis is placed on weekly examinations on how to diagnose both electrical and mechanical service problems.

HVACR 110

Troubleshooting HVACR Systems

Prerequisite: HVACR 104, 105, 108

2 lectures per week: 2 hrs credit

This course covers the systematic evaluation of air conditioning, heating, and refrigeration systems. Troubleshooting topics include system pressures, temperature, compressor efficiency, mechanical, and electrical components.

HVACR 112

Sheet Metal Layout and Fabrication

Prerequisite: None

2 lectures per week: 2 hrs credit

This course covers the introduction to heating, ventilation, and air conditioning sheet metal duct systems. Basic fitting layout is covered. Emphasis is placed on various types of seams, edges, elbows, and ducts. Drawing and actual fabrication are done.

HVACR 114

Special Topics in HVACR

Prerequisite: Instructor consent

2 lectures per week: 2 hrs credit (may be repeated for credit 3 times with different topics)

Topics pertaining to current and emerging technology in the heating, ventilation, air conditioning, and refrigeration industry are covered. Content and format of this course is variable and may be initiated by updates in technology in the HVACR field.

History

HIST 111 (IAI: S2 912N)

World History: Origins to 1714

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course covers the political, social, and economic history of the world to 1714, including the origins and developments of its peoples and societies. Equal emphasis is placed on the development of Western and non-Western civilizations.

HIST 112 (IAI: S2 913 N)

World History: 1714 to Present

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course covers the political, social, economic, and cultural history of the world including the origins and development of its peoples and societies from 1714 to the present. Equal emphasis is placed on the development of Western and non-Western civilizations.

HIST 115 (IAI: S2 906N)

African Civilizations I

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course examines the roots of African civilizations, with a focus on the development of major African societies prior to the period of European imperialism.

HIST 116 (IAI: S2 907N)

African Civilizations II

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

A continuation of HIST 115 with major emphasis on the development of modern African societies as they react to the twin forces of imperialism and nationalism.

HIST 140 (IAI: S2 910N)

History of Latin America

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

Students study the growth and development of Hispanic America from the Age of Discovery to the present day. Special emphasis is placed on the success and failure of democratic procedures, and the relationship between Latin America and the United States. The influences of the Roman Catholic Church, the military, and the business community on the development of society and government are also described.

HIST 151 (IAI: S2 902)

History of Western Civilization I

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course examines the political, social, and economic history of the Western world, including the origins and development of cultures from human origins to the Age of Exploration.

HIST 152 (IAI: S2 903)

History of Western Civilization II

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course explores the political, social, cultural, and economic history of the Western world from the Age of Exploration to modern times.

HIST 201 (IAI: S2 900)**U.S. History: 1492 to 1877**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course is a study of the political, economic, and social factors in the growth of the United States from the Age of Discovery through the Civil War and Reconstruction.

HIST 202 (IAI: S2 901)**U.S. History: 1877 to Present**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course looks at the political, social, and economic history of the United States from 1877 to the present, including the development and origins of its peoples and society.

HIST 240 (IAI: H2 909D)**African American History**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course will focus on African American history from its pre-slavery roots in Africa through the present. Using primary and secondary sources, we will examine the political, economic, social, and cultural contributions of African Americans to the history of the United States from 1619 to the present, as well as the changing definition of freedom in America.

Humanities

(See also Philosophy)

HUMAN 101 (IAI: H5 904N)**Comparative Religions**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

The goal of the course is to enhance the understanding of what religion is through a study of some of the forms it takes.

HUMAN 102 (IAI: H5 901)**Foundational Religious Texts**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This is a humanistic study of one or more of the foundational documents of the world's religions such as the Hebrew Bible, the New Testament, the Qur'an, or the Vedas.

HUMAN 201 (IAI: H9 900)**Humanities Themes: Myth, Reason, and God**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course deepens students' understanding of their own moral, political, and religious beliefs through examining the major humanities themes in Greek and Hebrew texts basic to Western culture. Literary, historical, and philosophical perspectives are explored in readings which include Homer, Plato, and the Bible.

HUMAN 202 (IAI: HF 900)**Form and Structure in the Arts**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

Coursework is divided among literature, painting, and music.

Emphasis is on formal structure of these works, and on analysis rather than appreciation.

Hydraulics

HYDR 101**Fundamentals of Hydraulics**

Prerequisite: None

2 lectures per week: 2 hrs credit

This is a general course covering the basic components of hydraulic systems, and the basic laws and formulas involved in simple fluid power calculations. Topics include pumps, control valves, actuators, the use of ASAS symbols, and maintenance procedures.

HYDR 102**Hydraulic Pumps**

Prerequisite: HYDR 101

2 lectures per week: 2 hrs credit

This is a study of various fluid power pumps and their principles of operation, construction, and maintenance. Fixed gear, vane, axial, and radial piston, and variable delivery pumps are covered in addition to combination pumps and self-contained power units.

HYDR 103**Hydraulic Controls**

Prerequisite: HYDR 101

2 lectures per week: 2 hrs credit

This course provides a study of the various controls used in fluid power. Topics covered: pressure and volume theory, operation and construction of valves, and circuit applications. Also covered are valves and their assemblies, the relief, pressure reducing sequence, counterbalance, brake, volume and control and directional, in addition to various types of valve controls.

HYDR 104**Basic Hydraulic Circuits**

Prerequisite: HYDR 103

2 lectures per week: 2 hrs credit

This is a study of fluid power circuit fundamentals, calculations and design. Circuits studied: pump-unloading, speed, pressure, volume, deceleration, sequence, servo, oil conditioning, and transfer line.

HYDR 106

Pneumatics

Prerequisite: AMATH 101

2 lectures per week: 2 hrs credit

This course offers a study of fundamental pneumatic principles, gas laws, calculations, ASAS symbols and terminology. Also considered are the way air is compressed, the compressed air system, controlling pneumatic power, and the introduction of fluidics.

Industrial Electrician

(see Electrician)

Information Technology

Course prefixes indicate the content emphasis of each course. Information Technology will accept returning student courses that are 5 to 7 years old if the student received a grade of "A" or "B" for the course. If the student did not receive a grade of "A" or "B" for the course and the course is older than 5 years, the course will not be accepted for completion of any degree or program. Courses beyond 7 years, with any grade, will not be accepted for completion of any degree or program.

IT 106

Mathematics for Computers

Prerequisite: MATH 090 or qualifying score on Math Placement Test

3 lectures per week: 3 hrs credit

This course is designed to provide an understanding of the numerical concepts required for data processing. Included in the course are the following topics: binary, octal and hexadecimal number systems, set theory, logic, floating and fixed point numbers, problem solving, and algebra as it relates to data processing.

IT 140

Introduction to Operating Systems

Prerequisite: ITAPP 101 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lecture, 2 lab hrs per week: 3 hrs credit

This course describes the purpose of operating systems and how they work from a business, personal, and PC support perspective. This course provides hands-on experience in file maintenance, configurations, Windows customization, file systems, basic trouble-shooting, and running applications with Windows operating systems. Other operating systems (command prompt, Linux, and networking) are reviewed, compared and discussed.

IT 201

Systems Design and Development

Prerequisite: ITAPP 101 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course provides an analysis of the information flow within the business organization. The systems development life cycle is studied with both physical and logical design considerations. Case studies are used to illustrate the steps of a system study.

IT 205

Ethics in Information Technology

Prerequisite: Placement into ENG 099 or higher

2 lectures per week: 2 hrs credit

This course explores the legal, ethical, and societal issues in the information technology (IT) world. Students examine various ethical situations that arise in IT and formulate ideas for addressing these issues. Topics include computer and Internet crime, privacy rights, freedom of expression, intellectual property, and employer/employee issues.

IT 240

Linux Operating System

Prerequisite: IT 140 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course provides an in-depth study of and hands-on experience with the primary functions of the Linux operating system. The major essential command-line commands, as well as use of the graphical user interface are covered. This course provides theoretical and practical concepts including file systems, elementary shell scripting, and other end-use knowledge necessary to move to the next level of basic system administration. Basic administrative tasks that are necessary for maintaining a working system are explored.

Applications - ITAPP

ITAPP 100

Basic Computing Skills

Prerequisite: Placement into ENG 099 or higher

1 lecture per week: 1 hour transfer credit

This course is designed for students who have little or no computer experience. Topics covered include using e-mail, searching for and evaluating Internet sites, creating basic documents using Word, creating basic presentations using PowerPoint, using basic operating system functions, using textbook supplemental materials such as CDs and online resources, and using WebAdvisor and Blackboard.

ITAPP 101 (IAI: BUS 902)**Introduction to Computers**

Prerequisite: Keyboarding (recommended); Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course provides an overview of current computer technology and trends. Topics include computer terminology, hardware, application software, networks, and the Internet. Students are also introduced to the latest business software – word processing, spreadsheets, database management, and presentation graphics. Students with little or no computer experience are strongly encouraged to enroll in ITAPP 100 Basic Computing Skills before taking this course.

ITAPP 109**Introduction to the Internet**

Prerequisite: Placement into ENG 099 or higher; ITAPP 100 or equivalent knowledge/skills (recommended)

2 lab hrs per week: 1 hr credit

This course is a comprehensive study of the Internet through hands-on experience. All of the basic Internet applications are covered, including e-mail, the World Wide Web, search strategies, file protocol, Web security, and social issues.

ITAPP 121**Word Processing Applications - Level 1**

Prerequisite: ITOFS 100 (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit (may be repeated three times)

This course prepares students to work with the latest word processing software in a career setting or for personal use. Students develop a mastery-level competence in word processing by creating and editing business documents.

ITAPP 122**Word Processing Applications - Level 2**

Prerequisite: ITAPP 121 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 2 labs per week: 3 hrs credit (may be repeated three times)

This course is a continuation of hands-on skill development using the latest word processing software. Topics covered include creating and modifying styles, creating templates, preparing reference documents, and customizing documents.

ITAPP 125**Spreadsheet Applications - Level 1**

Prerequisite: Keyboarding (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course teaches students to use the latest spreadsheet software. Topics covered include creating and editing worksheets, creating formulas and functions, maintaining and enhancing worksheets and workbooks, and creating charts.

ITAPP 126**Spreadsheet Applications - Level 2**

Prerequisite: ITAPP 125 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course provides further hands-on study into the capabilities of the current spreadsheet software. Topics covered include advanced formatting, formulas, functions, and data management; managing and integrating data; protecting and sharing workbooks; automating repetitive tasks; importing and exporting data.

ITAPP 128**Database Applications - Level 1**

Prerequisite: Keyboarding (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course provides hands-on experience with the most current and widely used database software. Topics covered include creating and editing database files, queries, and forms; grouping data for reports; indexing; creating labels and menu structures; importing and exporting data.

ITAPP 129**Database Applications - Level 2**

Prerequisite: ITAPP 128 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course provides further hands-on study into the capabilities of the current database software. Topics covered include creating advanced tables, relationships, queries, and forms; using advanced reporting features and tools; customizing the database.

ITAPP 130**Software Integration and Application**

Prerequisite: ITAPP 121, 125, 128; Placement into ENG 099 or higher

1 lecture, 2 lab hrs per week: 2 hrs credit

This course explores the powerful merging capabilities of word processing, database and spreadsheet software packages. Students import data and graphics, explore mail merge, write macros, and create integrated software systems for business applications.

ITAPP 132**Desktop Publishing**

Prerequisite: ITOFS 100; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This desktop publishing course utilizes a personal computer to create high-quality publications by using an advanced page layout software package to combine text and graphics to produce master copy. Text and graphics can be combined to produce brochures, newsletters, magazines, technical documents, and books. Students completing this course are expected to demonstrate their knowledge of desktop publishing by producing assigned and personal projects.

ITAPP 133

Presentation Applications

Prerequisite: Placement into ENG 099 or higher

1 lecture, 2 lab hrs per week: 2 hrs credit

This course teaches students to use current desktop presentation software to plan, construct, and produce effective desktop presentations. Students complete assigned projects using special predefined layout features in the software to produce slide presentations.

ITAPP 232

Advanced Desktop Publishing

Prerequisite: ITAPP 132 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

Students use current hardware and software to apply knowledge gained in previous Desktop Publishing courses to complete assigned projects. Emphasis is placed on job specifications and reproduction requirement.

ITAPP 240

Application Development in Database

Prerequisite: ITAPP 129; Placement into ENG 099 or higher

1 lecture, 2 lab hrs per week: 2 hrs credit

Students develop and prepare tables, queries, forms, and reports using database software. Programming is used to develop database applications. Students are challenged to use critical thinking and analysis to find efficient solutions to real-life situations.

Networking - ITNET

ITNET 160

Computer Repair

Prerequisite: IT 140 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 4 lab hrs per week: 4 hrs credit

This course is an introduction to personal computer upgrades, maintenance, and repair. Topics include computer hardware, software, operating systems, troubleshooting, and how to fix, upgrade, and build a computer. This course covers the latest technologies and objectives of the CompTIA A+ certification exams.

ITNET 165

Introduction to Networking

Prerequisite: IT 140 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course covers the skills and concepts needed to configure and operate a variety of networking products, including a wide range of vendor and product neutral networking technologies. Topics include networking theory, protocols, connectivity devices, Internet addressing, internetworking servers, security, and troubleshooting. Successful completion prepares students to pass CompTIA's entry-level networking certification exam.

ITNET 250

Introduction to LAN Administration

Prerequisite: IT 140 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

Topics include local area network (LAN) terminology, hardware and software components required in a networked environment, and administration of common network operating systems. Hands-on activities include creating and managing user accounts, file sharing, printing, and other tasks related to network administration.

ITNET 260

Network Security Fundamentals

Prerequisite: ITNET 165 with a grade of C or better or Network+ certification; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course covers the fundamentals of network security including communication security, infrastructure security, cryptography, access control, authentication, external attack, and operational and organization security. Successful completion prepares students for the CompTIA Security+ certification exam.

ITNET 280

Ethical Hacking

Prerequisite: ITNET 260 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course introduces students to the art of ethical hacking and network defense, preparing students to be efficient security professionals. Topics include computer ethics, penetration testing, network and computer attacks, social engineering, operating system vulnerabilities, cryptography, and network intrusion issues regarding Web servers and wireless networks.

ITNET 299**Internship**

Prerequisite: 12 credit hours minimum IT courses successfully completed with a grade of C or better and consent of instructor; Placement into ENG 099 or higher

10 lab hrs per week: 2 hrs credit

This is a capstone course. Students must have completed the minimum requirement of IT hours in their designated IT program concentration courses. Student interns will be employed at an approved training site. This is scheduled by joint agreement of the student, the site supervisor, and the program coordinator.

Office Skills- ITOFS**ITOFs 100****Keyboarding**

Prerequisite: Placement into ENG 099 or higher

2 lab hrs per week: 1 hr credit

Keyboarding is inputting information through the use of the computer keyboard. The purpose of this course is to teach students to develop basic touch keyboarding skills on a computer.

ITOFs 111**Business Document Formatting**

Prerequisite: ITOFS 100 with a grade of C or better or touch keyboarding skill of at least 25 wpm; Placement into ENG 099 or higher

1 lecture, 2 lab hrs per week: 2 hrs credit

This course is a continuation of skill development in touch keyboarding. The purpose of this course is to enable students to develop keyboarding skill at a minimum of 30 wpm within four errors. Students create business applications such as letters, memorandums, tables, and manuscripts.

ITOFs 112**Advanced Document Production**

Prerequisite: ITOFS 111, ITAPP 121; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

The skills required for creating advanced business documents are presented in this class. Using voice processing equipment, working as part of a team, employing problem solving techniques, and developing keyboarding skill at a minimum of 50 wpm are covered.

ITOFs 117**Keyboarding Skill Development**

Prerequisite: ITOFS 100; Placement into ENG 099 or higher
2 lab hrs per week: 1 hr credit

This course is designed to improve keyboarding speed and accuracy skills. Students analyze his/her own error patterns and then practice specific drills to correct those particular weaknesses. Anyone who can use the touch method of keyboarding and is interested in improving that skill will benefit from the course.

ITOFs 119**Office Procedures and Management**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs credit

The many techniques, skills, routines, and procedures which are relevant to and identified with office support positions are included in this course. Topics include effective business communication; records management; meeting and travel arrangements. Decision making and working as part of a team are emphasized.

ITOFs 199**Office Assistant Practicum**

Prerequisite: Completion of 15 credit hours required IT courses and consent of coordinator; Placement into ENG 099 or higher

2 lab hrs per week: 1 hour credit

This practicum provides an opportunity for students to work within a simulated office environment and to perform duties relevant to office support personnel.

ITOFs 299**Internship**

Prerequisite: Consent of instructor and successful completion of a minimum of 12 credit hours in IT concentration courses.

10 lab hrs per week: 2 hrs credit

In this capstone course, student interns will be employed at an approved training site. This is scheduled by joint agreement of the student, the site supervisor, and the program coordinator. Students must have completed the minimum requirement of hours in their designated IT program concentration courses.

Programming - ITPRG**ITPRG 103****Introduction to Programming Logic**

Prerequisite: Placement into ENG 099 or higher; IT 140 with a grade of C or better (recommended).

2 lectures, 2 lab hrs per week: 3 hrs credit

This course introduces structured programming logic and includes reports, control breaks, extracts, tables, input validation, updates, and file handling concepts. Standard logic charts include flowcharting, pseudo-code, and other charting methods. Solutions to programming projects are in QuickBasic and Visual Basic.

ITPRG 142

Visual Basic Programming I

Prerequisite: IT 140 and ITPRG 103 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs transfer credit

In this introduction to the Visual Basic programming language, object-oriented and event-driven programming essentials, techniques, and applications are stressed. Topics include control objects, decisions and conditions, menus, procedures, looping structures, and array manipulations.

ITPRG 144

C++ Programming I

Prerequisite: IT 140 and ITPRG 103 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs transfer credit

This course provides an introduction to the capabilities of the C++ programming language. Topics covered include variables, operators, control structures, input and output, functions, simple data types, arrays, and strings.

ITPRG 147 (IAI: CS 91 I)

Java Programming I

Prerequisite: IT 140 and ITPRG 103 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lecture, 2 lab hrs per week: 3 hrs transfer credit

This course provides JAVA programming basics. Object-oriented programming fundamentals are covered as they apply to stand-alone JAVA programs.

ITPRG 154

C#.Net Programming

Prerequisite: IT 140 and ITPRG 103 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course covers C#.NET programming concepts. C#.NET was introduced as part of the .NET platform designed to accommodate Internet and Windows applications. Topics covered include writing C#.NET programs using OOP, declaring variables, manipulating data types, creating methods, performing procedures, creating graphical user interfaces, using XML Web Services, developing standalone class libraries, and programming event-driven applications.

ITPRG 157

Javascript Programming

Prerequisite: IT 140 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This introductory course in JavaScript programming provides basic programming concepts for designing, developing and integrating scripts into Web pages. The focus includes the use of tags, HTML, objects, event-handling, writing JavaScript functions, and calling JavaScript functions. JavaScript prepares students with a universally accepted scripting language, used for creating dynamic and interactive Web pages.

ITPRG 171

Game Design

Prerequisite: Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course introduces students to basic game theory (including game play and strategy) as well as the historical development of all types of games. Games used for education, training, and entertainment are explored. Strong focus is on the design process, from developing a basic concept, to selling the proposal, to production and marketing.

ITPRG 173

Digital Storytelling

Prerequisite: Placement into ENG 101 or higher.

2 lectures, 2 lab hrs per week: 3 hrs credit

This course focuses on the planning, storyboard design, and scripting of interactive digital productions, such as text, audio, and still and moving images, with a focus on video games. Narrative scripts and design are developed with an emphasis on scene design, characterization, plotting, target audience, messages, and script format. Topics include the advantages and limitations of multimedia as conduit for mediated messages, and the nuances between writing for multimedia and stand-alone text, audio, and video.

ITPRG 242

Visual Basic Programming II

Prerequisite: ITPRG 142 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs transfer credit

This is a continuation of ITPRG 142. Advanced topics in Visual Basic are explored including arrays, multiple forms, data files, and databases, grids, SQL, graphics, OLE, DLL's, and custom objects. Emphasis is on finding creative solutions to application problems. During the last several weeks of the semester, the class works on a group project for an outside company.

ITPRG 244 (IAI: CS 912)**C++ Programming II**

Prerequisite: ITPRG 144 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs transfer credit

This course is a continuation of the C++ introduction. After a review of the introductory topics, study focuses on pointers, arrays, structs, linked lists, recursion, operator overloading, inheritance, and polymorphism.

ITPRG 247**Java Programming II**

Prerequisite: ITPRG 147 with a grade of C or better (recommended); Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs transfer credit

This course is a continuation of ITPRG 147 and provides broader JAVA programming concepts. Object oriented programming concepts are covered as they apply to building event-driven JAVA applets, stand-alone JAVA programs, and GUI programming.

ITPRG 299**Internship**

Prerequisite: 12 credit hrs minimum IT courses successfully completed with C or better, and consent of instructor; Placement into ENG 099 or higher

10 lab hrs per week: 2 hrs credit

This is a capstone course. Students must have completed the minimum requirement of IT hours in their designated IT program concentration courses. Student interns will be employed at an approved training site. This is scheduled by joint agreement of the student, the site supervisor, and the program coordinator.

Web Development - ITWEB**ITWEB 101****Web Page Fundamentals**

Prerequisite: Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course is for students interested in developing specific Internet skills as a Web designer, developer or administrator. Topics include Internet fundamentals, Web page authoring with XHTML and CSS, and networking concepts. Successful completion prepares students to pass exams leading to various Certified Internet Webmaster (CIW) credentials.

ITWEB 103**Web Site Design - Level I**

Prerequisite: Placement into ENG 099 or higher; ITWEB 101 with a C or better (recommended)

1 lecture, 4 lab hrs per week: 3 hrs credit

This course teaches students how to create and manage Web sites with current Web authoring tools and languages using various multimedia and industry style standards. Topics include design strategies and techniques, tools, future Web standards, and the incompatibility issues surrounding current browsers. Successful completion prepares students to pass exams leading to various Certified Internet Webmaster (CIW) credentials.

ITWEB 105**Multimedia Writing**

Prerequisite: Placement into ENG 101

3 lectures per week: 3 hrs transfer credit

This course provides an introduction to basic writing skills necessary to create messages for the multimedia environment such as Web sites, graphics, animations, and digital audio. Upon successful completion, students will be able to write multimedia scripts; demonstrate an understanding of the nuances between writing for multimedia and writing for standalone text, audio and video; describe the advantages and limitations of multimedia as a conduit for mediated messages; and integrate standard expectations of writing including style, grammar, spelling, and punctuation.

ITWEB 201**Technology of E-Commerce**

Prerequisite: ITWEB 101 or 103 with a grade of C or better; Placement into ENG 099 or higher

2 lecture, 2 lab hrs per week: 3 hrs credit

This course teaches students how to conduct business online and how to manage the technological issues associated with constructing an e-commerce Web site. Students implement a genuine transaction-enabled business-to-consumer Web site, examine strategies and products available for building E-commerce sites, examine how such sites are managed, and explore how they can complement an existing business infrastructure. Successful completion prepares students to pass exams leading to various Certified Internet Webmaster (CIW) credentials.

ITWEB 203

Web Site Design - Level 2

Prerequisite: ITWEB 103 with a grade of C or better (recommended); Placement into ENG 099 or higher

1 lecture, 4 lab hrs per week: 3 hrs credit

This course develops students' understanding of interactive Web and design principles. Students will discover how to take the creation and management of Web sites to the next level, using techniques that include CSS layouts, image manipulation, dropdown menus, and advanced navigation. Students will develop an integrated interface for a Web site using programs including, but not limited to, Dreamweaver, Flash and JavaScript. Students will practice scripting and programming with an emphasis on using professional design techniques and standards. Sound, video, animation and interactivity are combined in interactive work. The primary emphasis of this course is development of the students' portfolio. Writing appropriate to the profession is required.

ITWEB 205

Web Languages

Prerequisite: ITWEB 101 with a grade of C or better; Placement into ENG 099 or higher

2 lectures, 2 lab hrs per week: 3 hrs credit

This course teaches students to use advanced Web programming languages to create interactive Web sites. Topics include form processing, file access and manipulation, and database connectivity. Both client and server side programming techniques are emphasized. Upon successful completion, students are prepared to take various Certified Internet Webmaster (CIW) exams.

ITWEB 299

Internship

Prerequisite: 12 credit hours minimum IT courses successfully completed with a C or better and consent of instructor;

Placement into ENG 099 or higher

10 lab hrs per week: 2 hrs credit

This is a capstone course. Students must have completed the minimum requirements of IT hours in their designated IT program concentration courses. Student interns will be employed at an approved training site. This is scheduled by joint agreement of the student, the site coordinator, and the program coordinator.

Journalism

JRNLM 101 (IAI: MC 919)

Introduction to Journalism

Prerequisite: ENG 101 with C or better

3 lectures per week: 3 hrs credit

This course introduces students to the journalism industry and its practices, including techniques of news gathering, reporting, and interviewing. Students learn to use the library and do online database research. Students write basic stories under real-time constraints.

Languages

(See Spanish)

Library and Information Science

LIB 101

Foundations of Information

Prerequisite: Placement into ENG 099 or higher

1 lecture per week; 1 hour transfer credit

This introductory course addresses the production, dissemination, and evaluation of information and knowledge. Students will gain the skills needed to effectively identify, gather, organize, and evaluate information from a variety of sources, both print and digital. The course will look at the research process as a whole, the ethical use of information, and citation practices.

Literature

(See English)

Manufacturing Technology

MT 101

Manufacturing Basics – Measurement, Materials, and Safety

Prerequisite: None

2 lectures, 4 lab hrs per week: 4 hrs credit

This course provides an exploration of the basics in machining, raw materials, use of hand tools, safety, and maintenance. Topics include an overview of measurement techniques, materials, safety, machine tool math, quality control, and maintenance. Teamwork, critical thinking, and problem solving are emphasized. Hands-on experience and practical applications are included.

MT 102

Manufacturing Job Planning, Benchwork, and Layout

Prerequisite: MT 101 with a C or better

2 lectures, 4 lab hrs per week: 4 hrs credit

This course provides an exploration of the basics of hand tools, understanding drawings, manual machines, and layout. Upon completion of this course the student will be able to interpret drawing information, describe basic symbols and notation, and interpret basic GD & T feature control frames. Teamwork, critical thinking, and problem solving are emphasized. Hands-on experience and practical applications are included.

MT 105**Metal Working Processes III***Prerequisite: MT 102*

2 lectures, 2 lab hrs per week: 3 hrs credit

This course provides students with information on horizontal milling, boring, drilling machines, and their operations.

Coursework consists of lectures and demonstrations on the construction of the different types of horizontal machines, the type of work done, the workpiece setup, the tools used and safety practices.

MT 120**Industrial Safety***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course provides safety training for those in industrial plant situations. Topics include tool and machine safety, lock out/tag out procedures, fire protection, eye safety, basic electrical safety, ladder safety, and government safety regulations as well as general safety practices.

MT 210**CNC Programming I***Prerequisite: MT 102*

2 lectures, 2 lab hrs per week: 3 hrs credit

This is an introductory course in computer numerical control programming. It covers CNC system operations; machine tool setup and tooling; G-code and M-code utilization; and 2 and 3-axis lineal and circular interpolation programming. Emphasis is placed on part programming and machine tool operation for CNC vertical milling and lathe work.

MT 211**CNC Programming II***Prerequisite: MT 210*

2 lecture, 2 lab hrs per week: 3 hrs credit

This course is a continuation of MT 210. It covers such topics as cutter compensation, fixed and variable canned cycles, subroutine programming, and the calculation of machining process. Part programs are written for the lathe, the vertical mill, and the horizontal mill.

MT 212**Introduction to Robotics***Prerequisite: None*

2 lectures, 2 lab hrs per week: 3 hrs credit

This course introduces students to the use of robotic devices in various manufacturing environments. It covers topics ranging from the development of robotics, to robotic systems and the operation and programming of robotic devices. Students receive hands-on instruction in the use of the teach-pendant and computer-based robotic language programming.

MT 214**CAD/CAM Systems***Prerequisite: MT 210; CADMD 243 recommended*

2 lectures, 2 lab hrs per week: 3 hrs credit

This course introduces students to the relationship, use, and operations of CAD and CAM systems to generate CNC programs. Students learn to create CAD files for use with a CAM system; to use a CAM system to create geometry, tooling, and post-processor files; and to transmit CAM-generated programs to CNC equipment.

MT 215**Manufacturing Systems***Prerequisite: MT 210 and 212*

3 lectures, 2 lab hrs per week: 4 hrs credit

This course covers the identification, operation, and application of both basic industrial processes and various systems that can be integrated into a computer integrated manufacturing system (CIM). These include CNC, CAD, CAM, and robotics. Students design, program, and implement workcells that include material handling, manufacturing and assembly operations. Emphasis is placed on fully automated production system design and operation.

MT 220**Metallurgy – Ferrous***Prerequisite: None*

2 lectures per week: 2 hrs credit

Iron, steel and their alloys, standard classification systems, properties, and methods of testing are considered. Heat treatment processes, critical temperatures, crystalline structure changes, and standard physical tests and welding metallurgy are studied.

MT 221**Metallurgy – Nonferrous***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course studies types of nonferrous metals and their applications. Standard classification systems, properties, and methods of testing properties are discussed. In addition, development of new nonferrous metals and their applications are studied.

Applied Mathematics**AMATH 100****Basic Mathematics for the Skilled Trades***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course is for those students who have little or no skill in the operations of numbers. It includes topics on whole numbers, fractions, decimals, percents, powers, and square roots, measurement systems, and commonly used formulas.

AMATH 101

Algebra for the Skilled Trades

Prerequisite: AMATH 100 with a C or better or placement into MATH 090 or higher

2 lectures per week: 2 hrs credit

This course is for those students who have a knowledge of the arithmetic operations but have little or no background in algebra. It includes basic algebraic operations, factoring, solving equations, ratio and proportion, exponents, and radicals.

AMATH 103

Geometry for the Skilled Trades

Prerequisite: AMATH 101

2 lectures per week: 2 hrs credit

An introduction to geometry which includes definitions and descriptions of geometric terms, axioms and theorems; explanations regarding dispositions dealing with straight lines, triangles, and circles; and application to practical shop problems.

AMATH 106

Applied Trigonometry for the Skilled Trades

Prerequisite: AMATH 101 with a C or better

2 lectures per week: 2 hrs credit

Topics in this course include definitions of trigonometric functions, fundamental trigonometric identities, solution of triangle problems and applications of trigonometry to practical shop problems.

AMATH 107

Trigonometry and Shop Applications I

Prerequisite: AMATH 106

2 lectures per week: 2 hrs credit

This course covers the solution of oblique triangles by use of altitude construction method, law of sines and cosines, cotangents, $t/2$ angle formula, and tangent law. Emphasis is placed upon standardized types of shop and drafting problems using above methods.

AMATH 108

Compound Angles for the Skilled Trades

Prerequisite: AMATH 107

2 lectures per week: 2 hrs credit

The principles of trigonometry are used to determine plane, base and base angles in solid figures for the purpose of classifying the solid geometric figures into basic types for analysis and recognition. Practice in solving shop problems is emphasized and includes determining angles of tilt and rotation for mounding paste on adjustable plates and methods of checking angular tapered dovetails.

AMATH 110

Gearing and Cams for the Skilled Trades

Prerequisite: AMATH 106

2 lectures per week: 2 hrs credit

This course covers the mathematics of standard screw threads such as American National, United States v. Acme and Worm. Standard notations and formulas for spur gears, bevel gears, worm, and worm wheels and helical gears. Replacement of spur gears with helical gears and use of an idler gear, and the calculations for plain and differential indexing. Charts, gear models, and gears are used as aids in visualizing the problems.

Developmental Mathematics

MATH 080

Computational Skills I

Prerequisite: Qualifying score on Math Placement Test

4 lectures per week: 4 hrs non-degree, non-transfer credit (may be repeated three times)

This course provides a background in mathematics for students who do not feel confident in the mastery of arithmetic skills. Topics covered include operations on whole numbers, fractions and decimals, percents, and ratio and proportions.

MATH 085

Computational Skills II

Prerequisite: MATH 080 with a C or better or qualifying score on Math Placement Test

4 lectures per week: 4 hrs non-degree, non-transfer credit (variable credit; may be repeated three times)

This course provides a background in mathematics for students who do not feel confident in the mastery of skills at the pre-algebra level. Topics covered include operations on integers, fractions, and decimals; percents; ratio and proportion; graphs; and measurement. Emphasis is placed on the development of algebraic skills.

MATH 090

Elementary Algebra

Prerequisite: MATH 085 with a C or better or qualifying score on the Math Placement Test

5 lectures per week: 4 hrs non-degree, non-transfer credit
This is a course in elementary algebra. Topics covered include linear equations and inequalities, graphs of linear equations, polynomials, factoring, rational expressions, and rational equations. Problem solving is emphasized throughout the course.

MATH 095**Intermediate Algebra**

Prerequisite: MATH 090 with a C or better or qualifying score on the Math Placement Test

4 lectures per week: 4 hrs non-degree, non-transfer credit
This is a course in intermediate algebra. It is a prerequisite for transferable college mathematics courses. Topics covered include functions and graphs, systems of linear equations, one- and two-variable inequalities, roots and radicals, complex numbers, and quadratic equations. Emphasis is placed on the development of algebraic skills.

MATH 096**Geometry**

Prerequisite: MATH 090 with C or better or qualifying score on a placement test

3 lectures per week: 3 hrs non-degree, non-transfer credit
This is a course covering the fundamental concepts of geometry. It is intended for students who lack credit in one year of high school geometry or need review in the subject matter. Emphasis is placed on learning geometric facts as well as the development of deductive reasoning. Topics covered include plane and solid geometry, properties of congruence, similarity, area, perimeter, and volume.

College-Level Mathematics

Prerequisites for MATH 112, 115, 151, and 200 may be met by one of the following options:

- Option 1** – MATH 095 and MATH 096, both with at least a C
- Option 2** – MATH 095 and one year of high school geometry, both with at least a C
- Option 3** – A qualifying score on the Math Placement Test

MATH 111**Mathematics For Paraprofessionals**

Prerequisite: MATH 085 or placement into MATH 090

3 lectures per week: 3 hrs credit
This course is designed for the elementary school paraprofessional. This course strongly emphasizes hands-on learning; thus, manipulatives are used extensively. Topics covered include problem solving, sets, number theory, statistics, probability, geometry, and measurement. Students seeking general education mathematics credit for transfer are advised to register for the MATH 200/206 sequence. (same as EDU 111)

MATH 112 (IAI: MI 904)**General Education Mathematics**

Prerequisite: Option 1, 2, or 3 above

3 lectures per week: 3 hrs transfer credit
This course is designed for the liberal arts student who is not a mathematics, science, or business major. The course focuses on mathematical reasoning and the solving of real-life problems. The following topics are studied in depth: set theory and logic, the mathematics of finance, probability, and statistics. The use of calculators or computers is a component of the course.

MATH 115 (IAI: MI 902)**General Education Statistics**

Prerequisite: Option 1, 2, or 3 as noted at beginning of section

3 lectures per week: 3 hrs transfer credit
The general education statistics course provides students with an opportunity to acquire a reasonable level of statistical literacy and thus expand their base for understanding a variety of work-related, societal, and personal problems, and statistical approaches to the solution of these problems. The main objective of the course is statistical reasoning. Detailed techniques of statistical analysis and the mathematical development of statistical analysis of statistical procedures are not emphasized. The course is intended to meet the general education requirement. It is not intended to be a prerequisite to nor a replacement for courses in statistical methods for business, social science or mathematical statistics. Students who complete this course cannot also receive credit for BUS 240 or MATH 153.

MATH 151**College Algebra**

Prerequisite: Option 1, 2, or 3 as noted at beginning of section

4 lectures per week: 4 hrs transfer credit
This course extends on the concepts previously studied in intermediate algebra. Course material is approached both algebraically and graphically. The graphing calculator is used extensively. Topics covered include linear, quadratic, polynomial, rational, exponential, and logarithmic functions and their applications. Matrices, matrix operation, and matrix equations are also introduced.

MATH 153 (IAI: MI 902)**Probability and Statistics**

Prerequisite: MATH 151 or qualifying score on the Math Placement Test

4 lectures per week: 4 hrs transfer credit
This is an introductory course in probability and statistics. Topics covered include frequency distribution, percentiles, measures of central tendency, measures of dispersion, standard deviation, correlation, elementary probability, line of regression, statistical inference, the binomial distribution, the normal distribution, student t-distribution, and the chi-square distribution. Computer software such as MINITAB is used. A comprehensive project is assigned. Students who complete this course cannot also receive credit for BUS 240 or MATH 115. (same as BUS 240)

MATH 155 (IAI: MI 906)

Finite Mathematics

Prerequisite: MATH 151 with a C or better or qualifying score on Math Placement Test

4 lectures per week: 4 hrs transfer credit

This course is an introduction to finite mathematics to meet the needs of business, social science, and liberal arts students. Topics covered include compound interest, annuities, systems of equations and inequalities, matrices, linear programming and its applications, probability, game theory, and logic. Throughout the course, emphasis is placed on concepts and applications.

MATH 157 (IAI: MI 900-B)

Calculus for Business and Social Science

Prerequisite: MATH 151 with a C or better or qualifying score on Math Placement Test

4 lectures per week: 4 hrs transfer credit

This is a one-semester calculus course for business and social science majors. Topics covered include equations of lines, limits, differentiation and integration of algebraic, exponential and logarithmic functions. Throughout the course, emphasis is placed on the applications of the basic concepts of calculus. This course does not count for credit toward a mathematics major or minor.

MATH 165

Pre-Calculus

Prerequisite: MATH 151 with a C or better

5 lectures per week: 5 hrs transfer credit

This pre-calculus course covers trigonometry, polar and parametric equations, conic sections, sequences, and series. It is a preparatory course designed to provide students with the essential skills needed for success in the sequence of courses covering calculus for scientists and engineers.

MATH 171 (IAI: MI 900-1; MTH 901)

Calculus with Analytic Geometry I

Prerequisite: MATH 165 with a C or better, or qualifying score on the Math Placement Test

5 lectures per week: 5 hrs transfer credit

This is the first course in a three semester sequence of courses covering calculus for scientists and engineers. Topics covered include lines, derivatives, applications of derivatives, antiderivatives and definite integrals, and applications of integrals.

MATH 172 (IAI: MI 900-2; MTH 902)

Calculus with Analytic Geometry II

Prerequisite: MATH 171

5 lectures per week: 5 hrs transfer credit

This is the second course in the three-semester sequence of courses covering calculus for scientists and engineers. Topics covered include applications of integrals, transcendental functions, integration techniques, L'Hopital's rules, improper integrals, infinite sequences and series, and polar coordinates.

MATH 173 (IAI: MI 900-3; MTH 903)

Calculus with Analytic Geometry III

Prerequisite: MATH 172

5 lectures per week: 5 hrs transfer credit

This is the final course in the three-semester sequence of courses covering calculus for scientists and engineers. Topics covered include basic operations on vectors, vector-valued functions, functions of several variables, partial derivatives, multiple integrals, and vector calculus.

MATH 200

Mathematics for Elementary Teaching I

Prerequisite: Option 1, 2 or, 3 as noted at beginning of section

4 lectures per week: 4 hrs transfer credit

This course covers the fundamental ideas and theories of mathematics beginning with arithmetic. It is designed for prospective and present elementary school teachers. Topics include sets, functions, whole numbers, integers, rational numbers, and irrational numbers to complete the real number system. This course is recommended to meet the requirements for teacher certification in Illinois. This is not a methods course in teaching mathematics.

MATH 201

Engineering Computer Programming

Prerequisite: MATH 171

3 lectures per week: 3 hrs transfer credit

This course is designed to use the computer in the study of problems in engineering, mathematics, or physical sciences. The emphasis is on problem analysis and problem solving.

MATH 206 (IAI: MI 903)

Mathematics for Elementary Teaching II

Prerequisite: MATH 200 with a C or better

4 lectures per week: 4 hrs transfer credit

This course is a continuation of Mathematics for Elementary Teaching I. The topics studied include geometry, probability, statistics, and measurement. Mathematical reasoning and problem solving are emphasized. This course is the second in a two course sequence recommended to meet the requirements for teacher certification in Illinois. It is not a methods course in teaching mathematics. This course provides general education credit for elementary education majors only.

MATH 210 (IAI: MI 905; CS 915)

Discrete Mathematics

Prerequisite: MATH 151 with a C or better or qualifying score on the Math Placement Test

3 lectures per week: 3 hrs transfer credit

This beginning course in the mathematics of computer science introduces mathematical analysis of finite collections and mathematical analysis of sequential machines, computer system design, data structures, and algorithms. Topics include sets, counting, recursion, graph theory, trees, networks, Boolean algebra, and formal grammars.

MATH 216 (IAI: MTH 912)**Differential Equations***Prerequisite: MATH 172*

3 lectures per week: 3 hrs transfer credit

Offered spring semester only.

This is a first course in ordinary differential equations with applications to the physical sciences. Topics covered include recognition, classification and solution of differential equations, as well as the expression of applied problems as differential equations. This course is designed to prepare students for more advanced study in mathematics, science, and engineering.

MATH 220**Linear Algebra***Prerequisite: MATH 172*

3 lectures per week: 3 hrs transfer credit

This course is intended as a transition between the calculus sequence and upper level courses in mathematics. Topics covered include vectors, vector spaces, matrices, determinants, matrix algebra, linear independence, linear transformations, eigenvalues, and eigenvectors. A significant portion of the course is devoted to theory and proof construction.

Mechanical Design Technology

(See CAD/Mechanical Design Technology)

Meteorology**METEO 150** (IAI: PI 905)**Introduction to Meteorology***Prerequisite: Placement into ENG 099 or higher*

3 lectures per week: 3 hrs transfer credit

This is a non-lab physical science course surveying topics related to weather, climate, and the atmosphere. Studies include air masses and fronts, global circulation, severe weather, and climate. Students examine weather's impact on humans, and humans' impact on weather and climate.

Millwright**MILL 101****Industrial Maintenance Techniques I***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course teaches reading and use of micrometers, vernier calipers, dial indicators, and other measuring tools. Other topics include hand and power tools used by the millwright, fastener identification, layout and drilling operations, as well as reaming and taping drilled holes.

MILL 102**Industrial Maintenance Techniques II***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course covers the installation of machinery coupled with the principles of steel construction. Also covered are friction bearings, non-friction bearings, couplings, gearing, and reduction build-up.

MILL 103**Lubrication***Prerequisite: None*

2 lectures per week: 2 hrs credit

This unit of study introduces students to the theories of lubrication, lubrication oils, greases, and solid lubricants, as well as the principles of lubrication, lubricating machine parts, lubrication storage, and safety. Other topics include lubricant application and its history, as well as centralized lubricating systems, system components, conductors, and connectors.

MILL 105**Rigging***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course familiarizes students with the safe and accepted industry practices as applied to rigging, rigging equipment, and its proper maintenance.

MILL 106**Power Train Elements***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course introduces the installation and alignment of component parts found in industrial equipment and machinery. Topics include the mounting of bearings, gearings, couplings, pulley clutches, and belts. Conveyors and chain drives are also covered. Equipment and coaxial alignment are stressed.

MILL 107**Machine Vibration Analysis I***Prerequisite: None*

2 lectures per week: 2 hrs credit

This course provides industrial maintenance technicians with an understanding of vibration analysis, rotating machine monitoring techniques, data collection, and analysis techniques.

Music**MUSIC 100****Fundamentals of Music Theory***Prerequisite: Placement into ENG 099 or higher*

3 lectures per week: 3 hrs transfer credit

This course introduces the basic principles of interpreting and understanding the language of music. It includes the study of notation, rhythm, scales, intervals, basic forms, musical terms, and introduction to the keyboard.

MUSIC 101

Musicianship I

Prerequisite: MUSIC 100 (or equivalent)

4 lecture hrs per week: 4 hrs transfer credit

This course is the first in a sequence of four that provides extensive training in Western music theory and aural skills. Common structures and organization of music is examined through written and aural analysis of chord progressions, melodies, metric and rhythmic patterns, tonal centers, dynamics, and instrumentation with an emphasis on development of sight-singing, dictation, and transcription skills. It is required for all degree programs in music.

MUSIC 102

Musicianship II

Prerequisite: MUSIC 101

4 lecture hrs per week: 4 hrs transfer credit

This course is the second in a sequence of four that provides extensive training in the fundamentals of music theory and ear training. It deals with the notational and aural aspects of Western music including scales, intervals, meter, rhythm, melody, and chords, using 4-part chorale writing for a basis for the study of chord progressions. It provides training in sight-singing, melodic and rhythmic dictation, and chord recognition. It is required for all music majors and minors.

MUSIC 110

Concert Choir

Prerequisite: None

1 lecture, 2 lab hrs per week: 1 hr transfer credit

This ensemble is open to music majors and all students interested in singing with a large concert choir. An audition may be required. The course may be repeated up to three times for credit.

MUSIC 115

Orchestral String Ensemble

Prerequisite: None

1 lecture, 2 lab hrs per week: 1 hr transfer credit

This ensemble provides an opportunity for musicians who play traditional orchestral string instruments (violin, viola, cello, double bass) to study and perform significant string literature in an ensemble. Students must know how to read music and have at least an intermediate playing ability to participate. The course may be repeated up to three times for credit.

MUSIC 120

Wind Ensemble

Prerequisite: None

1 lecture, 2 lab hrs per week: 1 hr transfer credit

This course is open to music majors and all students interested in the opportunity to study and perform significant concert band literature in an ensemble. Students may need to demonstrate an intermediate level or higher playing skill through audition. May be repeated up to three times for credit.

MUSIC 125

Latin Music Ensemble

Prerequisite: None

1 lecture, 2 lab hrs per week: 1 hr transfer credit

This ensemble explores a variety of styles of Latin American music through the arranging and performance of masterpieces from both the commercial and conservatory repertoire. Students are introduced to the foundational rhythms and performance techniques of various percussion instruments. In addition to percussion, instrumentation can include horns, bass, guitar, and piano.

MUSIC 130 (IAI: FI 900)

Music Appreciation

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course uses representative masterpieces to help students develop an appreciation for different kinds of music. Emphasis is placed on improving listening skills in order to identify and analyze elements and structures in music. Historical and societal influences, styles, and functions of music are considered through the study of great composers and performers.

MUSIC 132 (IAI: FI 904)

American Music

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This is an historical survey of the development and major cultural contributions of American music and composers including symphonic, jazz, and popular forms within the context of American culture and society.

MUSIC 143

Class Voice I

Prerequisite: Placement into ENG 099 or higher

1 lecture, 2 lab hrs per week: 2 hrs transfer credit

Group instruction in fundamentals of singing, voice production, breathing, diction, vocalizing, and technical exercises; elementary song literature is introduced as progress is made.

MUSIC 144

Class Voice II

Prerequisite: MUSIC 143

1 lecture, 2 lab hrs per week: 2 hrs transfer credit

A continuation of MUSIC 143, this course provides group instruction at a more advanced level. In addition to correct vocal production, breathing, diction, and technical exercises, learning of songs is emphasized.

MUSIC 152**Jazz Ensemble I**

Prerequisite: Consent of instructor

1 lecture, 2 lab hrs per week: 1 hr transfer credit
Instrumental ensemble performance. Open to intermediate level or higher students of piano and band or orchestral instruments.

MUSIC 153**Jazz Ensemble II**

Prerequisite: MUSIC 152

1 lecture, 2 lab hrs per week: 1 hr transfer credit
This course is a continuation of MUSIC 152. It provides instrumental ensemble experience with an emphasis on improvisation.

MUSIC 162**Vocal Jazz Ensemble I**

Prerequisite: Consent of instructor

1 lecture, 2 lab hrs per week: 1 hr transfer credit
This course provides rehearsal and performance experience in a vocal jazz ensemble.

MUSIC 163**Vocal Jazz Ensemble II**

Prerequisite: MUSIC 162

1 lecture, 2 lab hrs per week: 1 hr transfer credit
This course provides continuing rehearsal and performance experience in a vocal jazz ensemble.

MUSIC 171**Fundamentals of Music Production**

Prerequisite: Placement into ENG 099 or higher

1 lecture, 2 lab hrs per week: 2 hrs transfer credit
This course provides an introduction to computer assisted music production concepts, technology (including MIDI and/or other current), and techniques. In addition, basic piano keyboarding skills are covered. It is a required course for students in music technology or production.

MUSIC 172**Music in Film and Television**

Prerequisite: MUSIC 130 or 132

3 lectures per week: 3 hrs credit
This course examines the uses of music in film and television and provides an overview of the industry. The breadth of music is explored through critical analysis of significant works and consideration of aesthetic, technical, historical, psychological and social tools, and trends.

MUSIC 173**Introduction to Digital Sound**

Prerequisite: None

2 lectures, 1 lab hr per week: 2 hrs credit
Students are introduced to the concepts and tools for developing soundtracks for use in video, film, games and multimedia applications. Collecting, processing, editing, and synchronizing the sounds to video are explored.

MUSIC 174**Computer-Assisted Music Production**

Prerequisite: Placement into ENG 099 or higher; MUSIC 171

4 lectures per week: 4 hrs credit
This course is the second in a sequence of courses that teaches technical and aesthetic concepts of digital music production. Students advance their skills of MIDI (Musical Instrument Digital Interface), computer sequencing, and multitrack recording using software applications and tools. Through a series of projects, each student will produce an audio CD using Sonar 8.

MUSIC 176**Sound Recording Techniques**

Prerequisite: PHYSI 101; MUSIC 171

2 lectures, 2 lab hrs per week: 3 hrs credit
This course provides students hands-on training in recording audio of music and sound. Microphone types and set-up, mixing board set-up and management, room acoustics evaluation, sound isolation, and post-production techniques are covered.

MUSIC 181**Private Lessons I**

Prerequisite: Placement into ENG 099 or higher

1 lecture per week: 1 hr transfer cr (may be repeated 3 times)
Private instruction in voice or an instrument is provided for students who are not music majors. Students meet weekly with the instructor for a half-hour lesson emphasizing technique, reading skills and repertoires. Instruction is offered in voice, piano, brass, woodwinds, strings, percussion, organ, bass, or guitar.

MUSIC 182**Private Lessons II**

Prerequisite: MUSIC 181

1 lecture per week: 1 hr transfer cr (may be repeated 3 times)
Continued private instruction in voice or an instrument is provided for students who are not music majors. Students meet weekly with the instructor for a half-hour lesson emphasizing technique, reading skills and repertoires. Instruction is offered in voice, piano, brass, woodwinds, strings, percussion, organ, bass, or guitar.

MUSIC 191

Private Applied Music I

Prerequisite: Consent of instructor

2 lectures per week: 2 hrs transfer credit
(may be repeated 3 times)

Private instruction is provided in voice or an instrument, emphasizing techniques, performance, and pedagogical fundamentals. Students who plan to transfer to an upper-division program as music majors are required to enroll each semester in a selected area of performance concentration. Instruction is offered in voice, piano, brass, woodwinds, strings, percussion, organ, bass, or guitar.

MUSIC 192

Private Applied Music II

Prerequisite: MUSIC 191

2 lectures per week: 2 hrs transfer credit
(may be repeated 3 times)

Continued private instruction in voice or an instrument, emphasizing techniques, performance, and pedagogical fundamentals. Students who plan to transfer to an upper-division program as music majors are required to enroll each semester in a selected area of performance concentration.

MUSIC 201

Musicianship III

Prerequisite: MUSIC 102

4 lectures hrs per week: 4 hrs transfer credit

This course is the third in a sequence of four that provides extensive training in the fundamentals of music theory and ear training. It deals with the notational and aural aspects of Western music including scales, intervals, meter, rhythm, melody, and chords, and provides an introduction to polyphony and common musical forms including binary, ABA, and sonata-allegro. It continues a study of chord progressions and training in sight-singing, melodic, and rhythmic dictation, and chord recognition, and introduces two-part singing and harmonic dictation.

MUSIC 202

Musicianship IV

Prerequisite: MUSIC 201

4 lectures hrs per week: 4 hrs transfer credit

This course is the fourth in a sequence of four that provides extensive training in music theory and ear training. It deals with the notational and aural aspects of Western music, with an introduction to non-Western scales and tonality. It continues a study of form and focuses on 20th century theory and compositional developments. It continues a study of chord progressions and training in sight-singing; melodic, rhythmic, and harmonic dictation; and part singing.

MUSIC 252

Jazz Ensemble III

Prerequisite: Consent of instructor

1 lecture, 2 lab hrs per week: 1 hr transfer credit

This course is a continuation of MUSIC 153. It provides instrumental ensemble experience with an emphasis on improvisation.

MUSIC 253

Jazz Ensemble IV

Prerequisite: Consent of instructor

1 lecture, 2 lab hrs per week: 1 hr credit

This course is a continuation of MUSIC 252. It provides instrumental ensemble experience with an emphasis on improvisation.

MUSIC 262

Vocal Jazz Ensemble III

Prerequisite: MUSIC 163

1 lecture, 2 lab hrs per week: 1 hr transfer credit

This course provides continuing rehearsal and performance experience in a vocal jazz ensemble.

MUSIC 263

Vocal Jazz Ensemble IV

Prerequisite: MUSIC 262

1 lecture, 2 lab hrs per week: 1 hr transfer credit

This course provides continuing rehearsal and performance experience in a vocal jazz ensemble.

MUSIC 274

Digital Composition for Video

Prerequisite: MUSIC 174

4 lectures per week: 4 hrs credit

This course teaches the creative and technical aspects of composing and synchronizing music for video using computer-assisted digital technology (Sonar 8 and Adobe Audition), and existing visual media.

MUSIC 281

Private Lessons III

Prerequisite: MUSIC 182

1 lecture per week: 1 hr transfer credit

(may be repeated 3 times)

Continued private instruction in voice or an instrument is provided for students who are not music majors. Students meet weekly with the instructor for a half-hour lesson emphasizing technique, reading skills, and repertoires.

MUSIC 282**Private Lessons IV***Prerequisite: MUSIC 281*

1 lecture per week: 1 hr transfer credit
(may be repeated 3 times)

Continued private instruction in voice or an instrument is provided for students who are not music majors. Students meet weekly with the instructor for a half-hour lesson emphasizing technique, reading skills, and repertoires. Instruction is offered in voice, piano, brass, woodwinds, strings, percussion, organ, bass, or guitar.

MUSIC 291**Private Applied Music III***Prerequisite: MUSIC 192*

2 lectures per week: 2 hrs transfer credit
(may be repeated 3 times)

Continued private instruction in voice or an instrument, emphasizing techniques, performance, and pedagogical fundamentals. Students who plan to transfer to an upper-division program as music majors are required to enroll each semester in a selected area of performance concentration. Instruction is offered in voice, piano, brass, woodwinds, strings, percussion, organ, bass, or guitar.

MUSIC 292**Private Applied Music IV***Prerequisite: MUSIC 192*

2 lectures per week: 2 hrs transfer credit
(may be repeated 3 times)

Continued private instruction in voice or an instrument, emphasizing techniques, performance, and pedagogical fundamentals. Students who plan to transfer to an upper-division program as music majors are required to enroll each semester in a selected area of performance concentration.

MUSIC 299**Music Production Internship***Prerequisite: MUSIC 172, 176, 274; consent of instructor*

10 lab hrs per week: 2 hrs credit

This course provides workplace experience for students in the field of music technology and production.

Nursing

(See also Registered Nursing)

Financial Aid recipients should check with the Office of Financial Aid/Veterans Affairs prior to enrolling in Nursing 100. Some financial aid programs will not pay for this course.

NURS 100**Nurse Assistant Training**

Prerequisite: COMPASS reading score of 60 or above. Must be 16 years of age and have Social Security card. Must enroll in person.

6 lectures, 3 lab hrs per week: 7 hrs credit

This course teaches the basic nursing skills necessary to become a nursing assistant. Students are led from the integrated roles of the health care team to the specific duties of the nursing assistant and the skills necessary to give basic patient care and to deal with families.

NURS 101**Basic Care Needs***Prerequisite: Registration in the Nursing program*

4 lectures, 2 college lab hrs, 6 clinical lab hrs per week: 7 hrs credit

A course designed to assist students in recognizing the basic needs of clients. The communication process introduces the basic psychosocial needs of people, incorporating specific needs of clients and the dynamics of interpersonal relationships along with group process. Emphasis is placed upon the needs of the individual client made dependent through illness, including principles related to activities of daily living, administration of medications, and nursing observation. The approach to nursing care utilizes the principles of the nursing process.

NURS 102**Acute Care Needs***Prerequisite: NURS 101 and BIOL 222*

5 lectures, 2 college lab hrs, 6 clinical lab hrs per week: 8 hrs credit

This course is designed to introduce students to concepts related to the care and teaching of clients with acute care needs. The nursing process is instrumental in allowing students to explore and apply standards of care in meeting the needs of culturally diverse clients throughout the life span.

NURS 110**Seminar in Nursing Practice***Prerequisite: NURS 102*

1 lecture, 2 lab hrs per week: 2 hrs credit

The focus of this course is to enhance freshman nursing students' competence in decision making skills, critical thinking, and clinical judgments/practice.

NURS 111

Nursing as a Profession

Prerequisite: Registration in the Nursing program

1 lecture per week: 1 hr credit

A course designed to introduce students to the theories and concepts of nursing and health. Students explore how these concepts affect the study they are undertaking. Historical developments are presented as a basis for the current explosion of theories and concepts of emerging care and responsibilities. The conceptual framework of their program is discussed, and the legalities involving care they will administer are identified.

NURS 201

Family Care Needs

Prerequisite: NURS 102

6 lectures, 2 college lab hrs, 12 clinical lab hrs per week: 11 hrs credit

This course is designed to present theories and concepts which deal with communication problems and the expanding family, including children with compromised basic human needs. This will enable students to use the nursing process to advocate for the needs of these clients with acute variations along the life span.

NURS 202

Advanced Care Needs

Prerequisite: NURS 201

6 lectures, 2 college lab hrs, 12 clinical lab hrs per week: 11 hrs credit

This course is designed to present theories and concepts concerning clients presenting with variations of advanced care needs. Students continue to use the nursing process to manage the care of client groups.

NURS 211

Preparation for Professional Nursing

Prerequisite: Placement into ENG 099 or higher

2 lectures per week: 2 hrs credit

This course is designed to prepare the graduate for the professional practice of nursing. The nursing roles and the legal implications for the graduate nurse are discussed along with the recent developments and realities as they affect the everyday practice of nursing. Submission of a research paper is utilized to enhance written communication skills.

Office Administration and Technology

(See Information Technology)

Philosophy

PHILO 201 (IAI: H4 900)

Introduction to Philosophy

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

In this course students learn to think and write philosophically. They are introduced to major philosophers and schools of thought.

PHILO 202 (IAI: H4 904)

Ethics

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

In this course students examine the role of reason in ethical decision-making. Traditional types of ethical reasoning are studied, compared, and applied to topics of current concern.

PHILO 203 (IAI: H4 906)

Introduction to Logic

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course introduces formal reasoning, including the nature and evaluation of deductive and inductive references, language and meaning, symbolization, formal and informal fallacies, and evidence and its nature and role in critical thinking.

PHILO 204 (IAI: H4 905)

Philosophy of Religion

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course covers religious concepts and theories such as the existence and nature of a deity, the nature of good and evil, reason and faith, ethics, and the after-life. It may also include an examination of the nature of religious language and experience.

PHILO 205 (IAI: H4 903N)

Eastern Philosophy

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course presents the thoughts of great philosophers of the Eastern Tradition, including the ideas of Siddhartha Gautama, Lao-Tzu, Kahlil Gibran, and others.

PHILO 206 (IAI: H4 902)

Major Modern Ideas

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course examines major philosophical ideas from the modern period that revolutionized how we think about human nature, history, and society. Focusing on the writings of Darwin, Marx, Nietzsche, and Freud, the course will give students an opportunity to reflect on what these thinkers said and how their ideas resonate in contemporary culture. Selections from other modern philosophers will be included to help students see the origins of ongoing debates that spring from these ideas.

Photographic Studies

(See also Art and Graphic Communications)

PHOTO 170

Digital Camera Skills

Prerequisite: None

1 lecture per week: 1 hr credit

This course deals with basics of digital camera operation. Students explore solutions to visual problems posed during group field trips. (Digital cameras are provided)

PHOTO 171

Introduction to Photography

Prerequisite: Placement into ENG 099 or higher

6 lab hrs per week: 3 hrs transfer credit

This course investigates the principles of photography. Students learn camera controls and apply the methods of photography and print techniques. The course explores the medium through a series of visual problems and emphasizes photography as a means of personal expression.

PHOTO 175

Basic Lighting Skills

Prerequisite: Placement into ENG 099 or higher

1 lecture, 4 lab hrs per week: 3 hrs credit

Students in this course are introduced to the mechanics of photographic lighting. It explores the following topics: application and practice of proper metering, studio set up, lighting adjustment, storage of equipment, and use of various accessories.

PHOTO 180

Digital Imaging

Prerequisite: Placement into ENG 099 or higher

1 lecture, 4 lab hrs per week: 3 hrs credit

This is a detailed introduction to Digital Imaging tools and techniques used in the digital conversion and adjustment of photographic images. Students learn to correct, composite, retouch, and manipulate photographs in RGB/CMYK color space. Digital printing, film, print scanning, and proper storage of images on disk are also covered.

PHOTO 196

Careers in Photography

Prerequisite: 6 credit hours in photography

1 lecture per week: 1 hr credit

This course surveys the structure, working conditions, and specific job responsibilities in the field of photography. Classroom presentations, guest lectures, and AV materials provide students with an understanding of production methods and explore the employment potential for each specialty.

PHOTO 267

Video Production

Prerequisite: 6 studio credit hours in photography; or for students majoring in Mass Communications, COMM 111; or for students in the GC or Art programs, ART 115

2 lectures, 4 lab hrs per week: 4 hrs credit

This course familiarizes students with video production in a studio environment. They will gain the skills to produce basic video productions for television and the web. Students will make class presentations, write production proposals, and produce videos.

PHOTO 268

Event and Wedding Photography

Prerequisite: 6 studio credit hours in photography

2 lectures, 4 lab hrs per week: 4 hrs credit

This course investigates the principles and practices of event and wedding photography.

PHOTO 276

Commercial Techniques

Prerequisite: 6 credit hours in photography

2 lectures, 4 lab hrs per week: 4 hrs credit

This course concentrates on camera and lighting techniques used in the creation of product photography. It addresses the use of high-resolution digital camera equipment, table-top setups, and studio lighting for the production of catalog, advertising, and special effects photography.

PHOTO 282

Fine Art Process

Prerequisite: PHOTO 171, 180, or consent of instructor

6 lab hrs per week: 3 hrs credit

This course explores various experimental camera, darkroom and digital techniques. Projects include multiple composite, infrared film, digital filtration, optical distortion, Polaroid emulsion/ image transfers, cliche verre (enlargements, scans), and hand-coloring techniques.

PHOTO 283

Portraiture

Prerequisite: PHOTO 175 or consent of instructor

1 lecture, 4 lab hrs per week: 3 hrs credit

This course is an introduction to creating studio and available light portraits featuring tungsten and electronic strobe applications. Emphasis is placed on correct use of diffused, reflective and spot lighting techniques, proper metering, and posing of the sitter. Projects are completed using digital cameras and color inkjet production.

PHOTO 285

Digital Color Production

Prerequisite: 6 credit hours in photography or consent of instructor

2 lectures, 2 lab hrs per week: 3 hrs credit

This course investigates color light theory and the digital controls of color reproduction currently available in photography. Students work with software designed to develop and maintain color management of photographic output by calibrating displays, profiling scanners, cameras, and small to wide format inkjet printers.

PHOTO 286

Independent Photo Project

Prerequisite: 12 credit hours in photography or consent of instructor

6 lab hrs per week: 3 hrs credit

This course encourages individual exploration of a personal visual direction or idea with emphasis on the fine art approach to photography. A proposal outline and complete portfolio are required of each participant.

PHOTO 287

Independent Photo Studio

Prerequisite: 12 credit hours in photography or consent of instructor

6 lab hrs per week: 3 hrs credit

Students in this course propose advanced photographic exploration with emphasis in portrait, fashion, or commercial product photography. Each participant must have completed prior course work in their chosen area of concentration.

PHOTO 291

Survey of Contemporary Photography

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course gives students the opportunity to visit exhibitions at museums and galleries and become familiar with current trends in photography. Some classes will meet at the exhibition sites while others will be held on campus.

PHOTO 292

Photo Workshop: Special Topics

Prerequisite: PHOTO 171, plus 6 additional hours in photography

2 lectures, 4 lab hrs per week: 4 hrs credit (may be repeated 3 times for credit with different topics)

This advanced course explores a variety of specific subjects in a concentrated format. This course is repeatable (three times) for credit.

PHOTO 293

Advanced Portraiture

Prerequisite: PHOTO 283

1 lecture, 4 lab hrs per week: 3 hrs credit

This course features the use of sophisticated studio strobe systems in making professional portraits. Students work on multi-light sets to produce photographs of individuals, couples, families, and groups. Radio transmitter operation, color burst background techniques and location lighting methods are also covered.

PHOTO 297

Professional Portfolio

Prerequisite: PHOTO 275, 285, or consent of instructor

2 lectures, 2 lab hrs per week: 3 hrs credit

This course helps students understand the process of preparing a portfolio of creative commercial photographs for career readiness. Class activities include career planning, creation of portfolio content and assembly, resume organization, and personal presentation. Individual peer and/or professional critiques are conducted each week for career potential feedback.

PHOTO 298

Seminar

Prerequisite: Concurrent enrollment in PHOTO 299

1 lecture per week: 1 hr credit

Students meet with program coordinator one hour per week to discuss various problems and issues encountered in the internship.

PHOTO 299

Internship

Prerequisite: 12 credit hrs in PHOTO and consent of program coordinator

15 lab hrs per week: 3 hrs credit (variable credit)

The student internship program allows students to earn college credit while working in an approved photography-related business. This course is scheduled by joint agreement of the student, the site supervisor and the program coordinator.

Physical Education

Only four credits of physical education may be counted for an A.A. or A.S. degree, except for students transferring as physical education majors.

PE 101

Physical Fitness I

Prerequisite: None

2 lab hrs per week: 1 hr transfer credit

This course is designed to assist individuals in establishing a foundation for personal fitness. Students are administered basic fitness assessment and engage in a structured exercise program utilizing flexibility, strength, and cardiovascular efficiency. May be repeated three more times for credit.

PE 102**Physical Fitness II**

Prerequisite: PE 101

2 lab hrs per week: 1 hr transfer credit

A continuation of PE 101, this course is designed to assist students in achieving an intermediate level of fitness. Students are administered fitness assessments to determine progress in the areas of flexibility, strength and cardiovascular efficiency.

PE 103**Physical Fitness III**

Prerequisite: PE 102

2 lab hrs per week: 1 hr transfer credit

A continuation of PE 102, this course is designed to assist students in achieving a high level of fitness. Special emphasis is placed on maintaining target heart rate levels in order to determine further personal cardiovascular efficiency. Students are administered fitness assessments to determine personal progress.

PE 104**Physical Fitness IV**

Prerequisite: PE 103

2 lab hrs per week: 1 hr transfer credit

A continuation of PE 103, this course is designed to assist students in maintaining a high level of fitness. Students achieve a basic understanding of the impact of increased duration, frequency, and intensity levels in regard to enhancing physiological performance.

PE 105**Aerobics I**

Prerequisite: None

2 lab hrs per week: 1 hr transfer credit
(may be repeated 3 times)

This course assists individuals to improve strengthening, toning, and cardiovascular system through walking, Pilates, or yoga.

PE 106**Aerobics II**

Prerequisite: None

2 lab hrs per week: 1 hr transfer cr (may be repeated 3 times)
This course assists individuals to improve cardiovascular conditioning through step aerobics, kickboxing or low-impact aerobics. Strengthening and toning exercises are also introduced.

PE 107**Aerobics III**

Prerequisite: None

2 lab hrs per week: 1 hr transfer cr (may be repeated 3 times)
This course assists individuals to improve their cardiovascular conditioning through aqua aerobics. Strengthening and toning exercises are also introduced in the swimming pool environment.

PE 108**Aerobics IV**

Prerequisite: None

2 lab hrs per week: 1 hr transfer cr (may be repeated 3 times)
This course assists individuals desiring a higher level of intensity. This is accomplished through "Funk Aerobics", boot camp style aerobics, or indoor cycling.

PE 151**Basketball**

Prerequisite: None

2 lab hrs per week: 1 hr transfer credit

This course teaches the basic rules of basketball, playing court dimensions, and equipment needed. Fundamentals of passing, dribbling, shooting, rebounding, individual offense, and defense are emphasized.

PE 161**Soccer**

Prerequisite: None

2 lab hrs per week: 1 hr transfer credit

Learn the basic rules and fundamentals of soccer. Course instruction includes kicking, passing, trapping, heading, tackling, the throw-in, and goal keeping. Basic offensive and defensive strategies and tactics are also discussed.

PE 162**Volleyball**

Prerequisite: None

2 lab hrs per week: 1 hr transfer credit

This course teaches students the basic skills and rules associated with the game of volleyball. Skills covering overhead passing, forearm passing, serving, spiking, and blocking are explored. Practice games are conducted to emphasize each skill.

PE 163**Golf**

Prerequisite: None

2 lab hrs per week: 1 hr transfer credit

Examine rules and various skills associated with the game of golf. Techniques and skills such as proper grip, stance, swing, pitch, chip, sand shots, putting, and a variety of golf exercises are explored.

PE 164**Tennis**

Prerequisite: None

2 lab hrs per week: 1 hr transfer credit

This course teaches students basic rules of play and scoring procedures in tennis. Students are taught appropriate grip and techniques for a variety of tennis strokes.

PE 165

Softball

Prerequisite: None

2 lab hrs per week: 1 hr transfer credit

This course teaches students the basic rules of play and the basic skills associated with softball. Hitting, catching, fielding, throwing, and running bases are explored.

Physical Education: Exercise Science

PES 200

Officiating Sports

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

Instruction is provided in the fundamental techniques, rules, procedures, and professional attitude required of officials in flag football, softball, volleyball, and basketball.

PES 201

Introduction to Physical Education

Prerequisite: Placement into ENG 099 or higher

2 lecture hrs per week: 2 hrs transfer credit

This course provides introductory materials for pre-physical education majors. Emphasis is on pre-professional exposure to a variety of physical education related careers. The history of physical education, athletics, and related leisure activities are explored.

PES 202

Cultural Dance I

Prerequisite: Placement into ENG 099 or higher

2 lectures per week: 2 hrs transfer credit

This course introduces students to specific dance techniques, rhythmic patterns, instrumentation, and appropriate musical forms associated with African, Afro Brazilian, Latin, and/or Caribbean dance styles. This is accomplished through lecture and activity.

PES 210

Lifestyle Fitness Coaching

Prerequisite: Program Coordinator consent required

2 lectures per week: 2 hrs credit

Students will learn communication and facilitation skills to help their clients achieve positive behavior changes and establish expectations for personal growth and healthy active living.

PES 215

Group Fitness Instructor Training

Prerequisite: Consent of program coordinator

2 lectures, 2 lab hrs per week: 3 hrs transfer credit

This course provides the methods, techniques, and skills that enable students to provide safe aerobic activities as instructors.

PES 220

Fitness Assessment/Exercise Program Design I

Prerequisite: Consent of program coordinator

2 lectures, 2 lab hrs per week: 3 hrs transfer credit

This course introduces students to the skills, organization, and methods of fitness testing. Students also learn exercise program design.

PES 225

Weight Training: Theory & Application

Prerequisite: Consent of program coordinator

2 lectures per hr: 2 hrs transfer credit

This course emphasizes the instructional techniques and skill development in progressive resistance strength training. Anatomical, physiological and biomechanical principles are studied and applied to design effective programs for individuals and groups.

PES 230

Nutrition for Sports and Exercise

Prerequisite: Consent of program coordinator

3 lectures per week: 3 hrs transfer credit

This course provides an overview of the basic principles of nutrition and weight management with particular application to exercise and sport.

PES 235

Athletic Training Techniques

Prerequisite: Consent of program coordinator

3 lectures per week: 3 hrs transfer credit

This course is a study of the basic concepts and techniques in prevention, recognition and management of common sport and exercise injuries, including methods in conditioning for injury prevention, evaluation, taping safety, and emergency procedures.

PES 250

Kinesiology

Prerequisite: BIOL 108 or BIOL 221 and 222, and consent of program coordinator

3 lecture hrs per week: 3 hrs transfer credit

This course focuses on the functional anatomical basis of human motion accomplished through studying the skeletal, neural, and muscular systems.

PES 255

Special Populations

Prerequisite: BIOL 108 or BIOL 221 and 222, PE 220, and consent of program coordinator

3 lectures per week: 3 hrs transfer credit

This course emphasizes safe and effective fitness programming by addressing physiological difference, and techniques and tools for motivating special populations.

PES 260**Fitness/Exercise Facility Management**

Prerequisite: Consent of program coordinator

3 lectures per week: 3 hrs credit

This course introduces students to fitness/exercise/recreation facilities and their operational procedures. The management process regarding facility design, personnel management, marketing, budgeting, and insurance issues are discussed.

PES 265**Physiology of Exercise**

Prerequisite: Consent of program coordinator

3 lectures per week: 3 hrs transfer credit

This course is designed to teach the basic physiological principles of exercise.

PES 298**Internship Seminar**

Prerequisite: Concurrent enrollment in PE 299 and consent of program coordinator

1 lecture per week: 1 hr credit

This seminar is designed to provide direction on building a successful personal training business.

PES 299**Internship for Personal Trainers**

Prerequisite: Concurrent enrollment in PE 298 and consent of program coordinator

15 lab hrs per week: 3 hrs credit

This course is designed to provide real-world experience. Students are supervised in Fitness Center arranged by the program coordinator.

Physical Science**PHYS 111 (IAI: P9 900L)****Physical Science**

Prerequisite: Placement into ENG 099 or higher

3 lectures, 2 lab hrs per week: 4 hrs transfer credit

This is an introductory lab course focusing on everyday experiences in physics, chemistry, and astronomy. Basic ideas of motion, matter, and energy are explored and related to astronomy and the importance of scientific discoveries to our society.

PHYS 112 (IAI: PI 905L)**Earth Science**

Prerequisite: Placement into ENG 099 or higher

3 lectures, 2 lab hrs per week: 4 hrs transfer credit

Earth Science is an introductory lab course which surveys topics in geology, meteorology, and environmental science. The geology portion includes rocks, streams, glaciers, earthquakes, plate tectonics, volcanism, and mountain building. The meteorology portion focuses on the atmosphere, weather and climate. Human influence on the environment is emphasized.

Applied Physics**APHYS 100****Applied Physics**

Prerequisite: AMATH 100 or MATH 090

2 lectures per week: 2 hrs credit

This course surveys the physical principles of mechanics and is intended for students in apprentice certificate programs. Topics include metric system measurements, motion, Newton's laws, forces and equilibrium, simple machine elements, conservation laws, rotational motion, matter, and heat.

Physics**PHYSI 101 (IAI: PI 901L)****Conceptual Physics**

Prerequisite: Placement into ENG 099 or higher; placement into Math 090 or higher or completion of Math 085 with C or better.

3 lectures, 2 lab hrs per week: 4 hrs transfer credit

This course is a one semester conceptual study of the major topics and concepts of physics. Topics include description of motion, Newton's laws of motion and universal gravitational law, the planets and Kepler's laws, energy, impulse and momentum, fluid mechanics, temperature, heat and laws of thermodynamics, electricity and magnetism, wave motion, sound waves and acoustic music, EM waves and optics, introduction to modern physics and cosmology, and solid-state physics.

PHYSI 105 (IAI: PI 901)**Physics and Society**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week; 3 hrs transfer credit

This course will introduce students to the scientific and technological challenges posed by such issues as climate change, nuclear energy, communication and satellite technology, space exploration, alternative energy, and the medical applications of electromagnetic imaging and nuclear radiation. Acoustics and music, quantum mechanics, and Einstein's theory of relativity will also be addressed.

PHYSI 120 (IAI: PI 900L)**College Physics I**

Prerequisite: MATH 151 with a grade of C or better

3 lectures, 2 lab hrs per week: 4 hrs transfer credit

This lab course is the first of a two-semester college algebra-based sequence designed to meet the needs of life and health science, liberal arts, and pre-professional students. Topics include vector algebra, Newton's laws of motion, description of motion and motion with constant acceleration, projectile motion, circular motion, work and conservation of energy, impulse and linear momentum, torque and angular momentum, fluids, elasticity and oscillations, waves and sound, and thermal physics and thermodynamics.

PHYSI 130

College Physics II

Prerequisite: PHYSI 120 with a grade of C or better

3 lectures, 2 lab hrs per week: 4 hrs transfer credit

This lab course is the second of a two-semester college algebra-based sequence designed to meet the needs of life and health science, liberal arts, and pre-professional students. Topics include electric forces and fields, electric potential, capacitors and dielectrics, electric current and circuits, magnetic forces and fields, electromagnetic induction, alternating current and circuits, electromagnetic waves and optics, reflection and refraction of light, optical instruments, interference and diffraction, quantum and particle physics and relativity.

PHYSI 210 (IAI: P2 900L; PHY 911)

University Physics I

Prerequisite: MATH 171 with a grade of C or better and high school physics

3 lectures, 3 lab hrs per week: 4 hrs transfer credit

University Physics I is the first course in a three-semester calculus-based sequence designed for pre-engineering, science, and mathematics majors. Topics include measurement and vectors, motion in one dimension, motion in two and three dimensions, Newton's laws of motion and applications of Newton's laws, work and kinetic energy, conservation of energy and momentum, rotation and angular momentum, gravity, static equilibrium and elasticity, fluid mechanics, and oscillations.

PHYSI 220 (IAI: PHY 912)

University Physics II

Prerequisite: PHYSI 210 and MATH 172 with a grade of C or better

3 lectures, 3 lab hrs per week: 4 hrs transfer credit

University Physics II is the second course in a three-semester calculus-based sequence designed for pre-engineering, science, and mathematics majors. Topics include temperature and kinetic theory of gasses, heat and the 1st law of thermodynamics, the 2nd law of thermodynamics, thermal properties, the electric field and Gauss's law, electric potential, capacitors, electric current and direct-current (dc) circuits, magnetic fields, sources of the magnetic field, magnetic induction (Faraday's and Lenz's laws), alternating current (ac) circuits, and Maxwell's Equations.

PHYSI 230 (IAI: PHY 914)

University Physics III

Prerequisite: PHYSI 220 and MATH 173 with a grade of C or better

3 lectures, 3 lab hrs per week: 4 hrs transfer credit

University Physics III is the third course in a three-semester calculus-based sequence designed for pre-engineering, science, and physical science majors. Topics include mechanical waves and acoustic (sound and hearing, intensity, and Doppler effect), superposition and standing waves, Maxwell's Equation and EM waves, properties of light, optical images, interference and diffraction, modern physics (relativity, waves and particles), quantum mechanics, applications of Schrodinger Equation, atoms, molecules, solid state physics, nuclear physics, and elementary particle physics.

Pipefitting

PIPE 101

Fundamentals of Pipefitting

Prerequisite: None

2 lectures per week: 2 hrs credit

This course covers the specifications, applications and maintenance of pipes, fittings and valves; simple pipe calculations and template development; tools used in piping; proper valve installation and maintenance; and consideration of safe working pressures of pipes and valves are covered.

PIPE 102

Drains, Wastes, and Vents

Prerequisite: None

2 lectures per week: 2 hrs credit

This course is designed to acquaint students with the proper materials for sewer, soil, vent, and waste pipes; principles of drainage flow and proper venting; traps and installation of unit sanitation equipment, and joints and fittings used on drainage systems.

PIPE 103

Plumbing and Pipefitting Heating

Prerequisite: None

2 lectures per week: 2 hrs credit

This course covers the principles of steam and hydronic heating, various types of steam systems in use, and proper sizing and tapping of steam units. The study of hydronics includes one-pipe, two-pipe, high temperature and pressure systems, heat loss calculations, and the design of hydronic systems.

PIPE 104

Plumbing and Pipefitting Code

Prerequisite: None

2 lectures per week: 2 hrs credit

This course covers current plumbing rules and regulations governing installation of plumbing systems, rules and regulations pertaining to joints, traps, cleanouts, water distribution, fixtures, and drainage.

Political Science

POLSC 101 (IAI: S5 903)

Principles of Political Science

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course provides an introduction to the core concepts of political science. Students explore the questions political scientists ask, the means by which they answer those questions, and the types of answers that have emerged in response to contemporary problems.

POLSC 140 (IAI: S5 900)**Introduction to U.S. Government and Politics**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course introduces students to the core concepts in political science that allow for a better understanding of the principles and organization of government and politics in the United States at the national, state and local levels.

POLSC 152 (IAI: S5 902)**U.S., State, and Local Government**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course describes the politics, function, and decision-making process of state and local governments in the United States. Special emphasis is placed on the historical development of Illinois government and political culture. Current issues facing state and local government agencies are also described and discussed.

POLSC 230 (IAI: S5 905)**Introduction to Comparative Government**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This introduction to comparative politics encompasses both Western and Non-Western political structures. Emphasis is on the political economy of development, the causes and effects of different systems of government, and the historical and cultural context of political formations across the globe.

POLSC 240 (IAI: S5 904)**Introduction to International Relations**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course introduces students to the core concepts and major issues shaping international relations and world politics. Topics to be explored may include: globalization, international organizations, human rights, environmental problems, development, terrorism, war, and peace.

POLSC 250 (IAI: PLS 913)**Introduction to Political Philosophy**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

Survey of major political philosophers and concepts in the history of political thought. The course focuses on classical and modern theorists, emphasizing such concepts as justice, equality, power, liberty, and rights.

Psychology

PSYCH 101 (IAI: S6 900)**Introduction to Psychology**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course introduces psychology as a scientific approach to understanding human behavior. The history of the field, its methods, and research tools are covered. Topics include physiology, sensation, perception, motivation, learning and memory, maturation and development, personality, individual differences, social behavior, and abnormal behavior and its therapies.

PSYCH 102 (IAI: S6 902)**Human Growth and Development: Life Span**

Prerequisite: PSYCH 101

3 lectures per week: 3 hrs transfer credit

This course surveys the normal biological, cognitive, social, emotional and personality development characteristics of life phases from conception through adulthood to death.

PSYCH 202**Educational Psychology**

Prerequisite: PSYCH 101

3 lectures per week: 3 hrs transfer credit

This course focuses on the psychological principles, theories and current research related to the roles and functions of teachers and learners in educational settings. From the perspective of students, special emphasis is placed upon theories of motivation, creativity, learning theories, individual learning differences, and cultural and gender diversity. From the teacher's perspective, special emphasis is placed upon classroom management principles, effective instructional approaches, measurement and assessment techniques, and aligning instruction with the growth of students' social, cognitive, and personal development.

PSYCH 203 (IAI: PSY 905)**Abnormal Psychology**

Prerequisite: PSYCH 101

3 lectures per week: 3 hrs transfer credit

This course covers theories and techniques applied to the labeling of "abnormal" behavior as defined by the Diagnostic and Statistical Manual of Mental Disorders. Topics include research methods; definition, assessment, and categorization of abnormal behavior; diagnosis, treatment, and prevention.

PSYCH 204

Industrial/Organizational Psychology

Prerequisite: PSYCH 101

3 lectures per week: 3 hrs transfer credit

This course studies the behavior of men and women as they adjust to the people, objects, and surroundings encountered in the workplace. Emphasis is on applying data gathered to maximize the economic and psychological well-being of all employees and constituencies. Topics include research methods; personnel selection, placement, and training; job analysis and performance appraisal; job satisfaction and motivation; leadership; organizational decision making; and organizational development.

PSYCH 212

Theories of Personality

Prerequisite: PSYCH 101

3 lectures per week: 3 hrs transfer credit

This course studies the development and structure of human personality. Students consider a variety of theoretical approaches to understanding human personality: psychoanalytical, humanistic, behavioral/social, cognitive, and traits. Readings include works by Freud, Adler, Horney, Sullivan, Fromm, Rogers, Jung, Maslow, Jourad, and others. Emphasis is on the application of personality theories to the understanding of self.

PSYCH 215 (IAI: S8 900; PSY 908)

Social Psychology

Prerequisite: PSYCH 101

3 lectures per week: 3 hrs transfer credit

A systematic introduction to theory and research on the ways social factors influence individual and group behavior. Examines attitudes, social perception, the establishment of norms, conformity, leadership, group dynamics and research methods, emphasizing their effects on the individual.

PSYCH 217

Human Sexuality

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

Principles, theories, and points of view concerning human sexuality with emphasis on the psychological and social aspects of human sexuality. The primary aim of this course is to provide a framework for and encourage responsible decision making with respect to the sexual aspect of our total being.

Reading

RDG 098

Foundations of College Reading

Prerequisite: Qualifying score on COMPASS Reading Placement Test

4 lectures per week: 4 hrs non-degree, non-transfer credit
(may be repeated two times)

This course reviews basic reading skills and strategies. Emphasis is placed on increasing students' vocabulary and comprehension skills for effective reading. Students learn the reading process and develop literal, interpretive, and evaluative skills.

Registered Nursing

(See also Nursing)

RN 100

R.N. First Assistant

Prerequisite: Professional registered nurse, current license, current CNOR and 2 years surgical nursing experience, or eligible for CNOR at end of courses; sponsoring surgeon and letter of recommendation from employer. Consent of instructor.

3 lectures per week: 3 hrs credit

This course provides prospective RN first assistants with advanced knowledge of anatomy/physiology and techniques related to operative procedures. It focuses on collaboration of the RN First Assistant and surgeon in delivery of optimal perioperative care and its impact on professional nursing. The course provides theoretical knowledge of asepsis/infection control, hemostasis, retracting/wound exposure, tissue handling, proper instrument usage, clamping, ligation, and suturing. It also provides a theoretical foundation based on extensive scientific knowledge and includes nursing concepts and clinical judgment for advanced nursing practice.

RN 101

R.N. First Assistant Internship

Prerequisite: RN 100

6 lab hrs per week: 3 hrs credit

This course provides theoretical instruction and practical skills attainment for the role and responsibility of a registered nurse first assistant.

Social Science

SOCSC 105

African American Masculine Identity

Prerequisite: Placement into ENG 099 or higher

3 lectures per week, 3 hrs transfer credit

This course introduces students to the major psychological, sociological, historical, and cultural perspectives about African American masculine identity, emphasizing race, ethnicity, and scholarship. A survey of contemporary and emergent theorists and practitioners and an examination of ways black male scholarly writing has informed past, present, and future encounters and status are included.

Social Work

SWK 201

Introduction to Social Work

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course introduces students to the historical background and nature of social work theory, agencies and policy. It provides insight into social service organizations and agencies. Students examine the human concerns of various at-risk populations. This course also presents the knowledge bases and skills of social work practice, and enables students to evaluate their interests and capacities for entering the profession of social work. (same as SOCIO 201)

Sociology

SOCIO 101 (IAI: S7 900)

Introduction to Sociology

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course explores the major concepts, theories, and research methods within the field of sociology. Students examine how their behavior is shaped by the groups they belong to and the society in which they live. Topics for discussion include culture, socialization, social institutions, deviant behaviors, social stratification, and social inequalities, particularly classism, racism, and sexism.

SOCIO 111 (IAI: S7 901)

Contemporary Social Issues

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course provides an analysis of the major social problems facing the world today. Students examine issues of contemporary interest from a sociological perspective. Topics for discussion may include crime and violence, technology, the role of the media, problems of the family, educational and workplace issues, and the environment. Also included are issues of social class, race and ethnicity, gender, age, and sexual orientation.

SOCIO 201

Introduction to Social Work

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course introduces students to the historical background and nature of social work theory, agencies, and policy. It provides insight into social service organizations and agencies. Students examine the human concerns of various at-risk populations. This course also presents the knowledge bases and skills of social work practice, and enables students to evaluate their interests and capacities for entering the profession of social work. (same as SWK 201)

SOCIO 210 (IAI: S7 902)

Marriage and the Family

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course provides an understanding of sociological concepts, theories, and research methods in relation to marriage and family issues. It focuses on the ever-changing dynamics of relationships and the influence of contemporary society on family life. Special emphasis is placed on communication in relationships, dating and mate selection, love, parenting, balancing work and family, violence in relationships, and divorce.

SOCIO 215 (IAI: S7 904D)

Sex, Gender, and Power

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course explores the origins of gender inequities. It examines the development of gender roles, the consequences of dividing society along gender lines, and the effects of changing cultural definitions of masculinity and femininity.

SOCIO 220 (IAI: S7 903D)

Race Relations: A Multicultural Perspective

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course focuses on the analysis of racial, religious, ethnic, and other groups. It examines the persistence of group identity, inter-group relations, social movements, government policy, and related social problems. Groups studied include African Americans, Latinos, European-Americans, Asian-Americans, and Native Americans.

Spanish

SPAN 101

Spanish I

Prerequisite: Placement into ENG 099 or higher

4 lectures per week: 4 hrs transfer credit

This course introduces students to the basic skills of understanding, speaking, reading, and writing the Spanish language. The workbook and homework complement class work. Classes are conducted mainly in Spanish.

SPAN 102

Spanish II

Prerequisite: SPAN 101; or 2 years high school Spanish within the past 5 years; or qualifying score on Spanish placement test; or instructor consent

4 lectures per week: 4 hrs transfer credit

This is a beginning course designed to continue development of the basic skills of understanding, speaking, reading and writing the Spanish language. The workbook and homework complement class work. Classes are conducted mainly in Spanish.

SPAN 110

Healthcare Spanish

Prerequisite: Compass reading score of 60 or higher or completion of RDG 098 with a C or better

3 lectures per week; 3 hours credit

This course is designed to develop practical Spanish communication skills for healthcare professionals. The course will focus on oral communication skills, especially listening and speaking but with some attention to reading and writing. The goals will include learning how to use medical terminology, greetings, commands and commonly used phrases. This course is intended for students with no previous experience in Spanish and is not for native speakers.

SPAN 120

Latin American Culture and Civilization

Prerequisite: Placement into ENG 099 or higher

3 lectures per week; 3 hours transfer credit

This course introduces students to the cultures, geography, history, literature, music, and arts of present-day Latin America. This course is conducted in English.

SPAN 201

Spanish III

Prerequisite: SPAN 102; or 3 years of high school Spanish within the past 5 years; or qualifying score on Spanish placement test; or instructor consent

4 lectures per week; 4 hrs transfer credit

This course provides a review of basic phonetic elements and syntax as an aid to improvement and expansion of good pronunciation and composition. It introduces Hispanic cultures. Classes are conducted in Spanish.

SPAN 202 (IAI: HI 900)

Spanish IV

Prerequisite: SPAN 201

4 lectures per week; 4 hrs transfer credit

This is a literature-based course designed to increase students' knowledge of the Spanish language and Hispanic cultures. It includes a review of grammar, composition, conversation, reading and comprehension.

Speech

(See Communication)

Surgical Technology

SRT 100

Medical Terminology

Prerequisite: Consent of instructor

2 lectures per week; 2 hrs credit

This course provides instruction in medical terminology needed by health care workers including surgical technologists, emergency medical technicians, paramedics, nursing assistants, students, nurses, and medical transcriptionists. This course is taught as a blended course: online with scheduled face-to-face meetings.

SRT 102

Patient Care I

Prerequisite: Acceptance into Surgical Technology program

2 lecture hrs per week; 2 hrs credit

Students learn to assess patient needs and response to illness and hospitalization. Emphasis is on routine care and procedures for surgical patients. Students also learn patient rights and care of specimens. Basics of medical terminology are incorporated.

SRT 103

Patient Care II

Prerequisite: SRT 102

1 lecture per week; 1 hr credit

Concepts of documentation, emergency procedures and thermoregulatory devices are covered. The basics of pharmacology and anesthesia are incorporated.

SRT 110

Introduction to Surgical Technology

Prerequisite: Acceptance into Surgical Technology program

5 lecture, 4 lab hrs per week; 7 hrs credit

The basic concepts and principles for developing skill competencies required to assist in surgery are covered beginning with the health care system and continuing with specifics of the surgical area. Microbiology and asepsis are stressed.

SRT 120

Surgical Procedures I

Prerequisite: SRT 110

5 lecture hrs per week; 5 hrs credit

Basic surgical procedures including the pre-operative, intraoperative, and post-operative phases commonly performed in the operating room setting are covered. Emphasis is on general/rectal surgery, obstetrical/gynecological surgery, and genito-urinary surgery.

SRT 122**Applied Surgical Procedures I**

Prerequisite: Concurrent registration in SRT 120

8 lab hrs per week: 1 hrs credit

Students learn to apply concepts and skills learned in SRT 120 in clinical settings arranged by program coordinator.

SRT 130**Surgical Procedures II**

Prerequisite: SRT 120

6 lectures per week: 6 hrs credit

This course continues the study of basic surgical procedures, emphasizing the following surgical specialties: ophthalmic surgery; ear, nose and throat surgery; head and neck surgery; oral and maxillofacial surgery; plastic surgery; orthopedic surgery; hand surgery; and endoscopic surgery.

SRT 132**Applied Surgical Procedures II**

Prerequisite: Concurrent registration in SRT 130

12 lab hrs per week: 2 hrs credit

Students learn to apply concepts and skills learned in SRT 130 in clinical settings arranged by program coordinator.

SRT 140**Surgical Procedures III**

Prerequisite: SRT 130

6 lectures per week: 6 hrs credit

This course continues the study of basic surgical procedures, emphasizing these surgical specialties: neurosurgery, thoracic surgery, cardiac surgery, vascular surgery, and general pediatric surgery.

SRT 142**Applied Surgical Procedures III**

Prerequisite: Concurrent registration in SRT 140

12 lab hrs per week: 2 hrs credit

Students learn to apply concepts and skills learned in SRT 140 in clinical settings arranged by program coordinator.

SRT 298**Surgical Technology Seminar**

Prerequisite: Concurrent registration in SRT 299

4 lecture per week: 4 hr credit

This seminar is designed to provide direction and feedback on workplace issues for students enrolled in the Surgical Technology Internship. Additionally, accreditation, certification, resume preparation, interviewing, and employee attributes are discussed.

SRT 299**Applied Surgical Procedures IV**

Prerequisite: SRT 142 and concurrent registration in SRT 298

12 lab hrs per week: 2 hrs credit

This course is designed to provide real-world experience for students in Surgical Technology programs. Students are supervised in clinical settings arranged by the program coordinator.

Technology of Mathematics and Science

TECH 109**Technical Mathematics I**

Prerequisite: High school algebra with a C or better

4 lectures per week: 4 hrs credit

This course is a study of beginning to intermediate algebra with right angle trigonometry. Topics for study are based upon application to technical subjects. Some of the topics are algebraic operations, factoring, functions, systems of equations, quadratics, and vectors.

Theatre

THTRE 101 (IAI: FI 907)**Understanding Theatre**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This course is a survey of theatre arts including a study of aesthetic and dramatic principles in selected plays, analysis of representative theatrical forms for cultural and social significance, critiques of theatre performances, and an overview of stage formats and technology.

THTRE 111 (IAI: TA 914)**Fundamentals of Acting**

Prerequisite: Placement into ENG 099 or higher

3 lectures per week: 3 hrs transfer credit

This is a beginning course in acting. A proper balance of theory and actual practice is maintained to develop both inner and outer acting techniques. An attempt is made to relate acting to good plays and to play production.

Tool and Die Making

TOOL 101**Tool and Die Processes**

Prerequisite: None

2 lectures per week: 2 hrs credit

This course introduces students to tool, die and stamping fundamentals. Topics specifically covered include bending, forming, stretching, drawing, and coining operations of sheet metal. Additionally, sheet metal stamping processes and their components are discussed.

TOOL 102

Tool and Die Maintenance

Prerequisite: None

2 lectures per week: 2 hrs credit

This course introduces students to tool, die, and stamping maintenance fundamentals. Topics specifically covered include troubleshooting techniques, analytical methods, and process optimization for stamping machinery and the associated dies.

Welding

WELD 101

Principles of Flat Welding

Prerequisite: None

2 lectures per week: 2 hrs credit

This course covers basic welding fundamentals related to arc and oxy-acetylene welding theory and practice, AC and DC welding equipment, and applications that position welding techniques, arc welding electrodes, and ferrous metal identification.

WELD 102

Horizontal Welding and Brazing

Prerequisite: WELD 101

2 lectures per week: 2 hrs credit

This course expands arc and oxyacetylene skills. Topics include oxyacetylene cutting equipment and applications, arc and carbon arc cutting, soldering, brazing, inspection and testing of welding, metal identification and welding in flat and horizontal positions.

WELD 103

Metal Inert and Vertical Welding

Prerequisite: WELD 102

2 lectures per week: 2 hrs credit

Students develop an understanding of and manipulative skills needed with gas metal arc welding (GMAW) equipment. Topics include GMAW welding equipment, MIG, special welding processes, mechanical testing of welds and welding in flat, horizontal and vertical positions (SMAW Shielded Metal Arc Welding).

WELD 104

Tungsten Inert and Overhead Welding

Prerequisite: WELD 103

2 lectures per week: 2 hrs credit

This course increases students' welding background by acquainting them with gas tungsten arc welding, automatic welding and cutting equipment, special cutting processes.

WELD 105

AWS Structural Certification

Prerequisite: WELD 104

2 lectures per week: 2 hrs credit

This course is designed for persons experienced in all-position welding who wish to become certified to weld stress structures. All welding test procedures conform to American Welding Society standards. Though test specimens are prepared in class, passing of the course is not contingent upon whether or not the specimens are sent to a materials testing laboratory for analysis or the results of the analysis. However, if the student requests certification and pays the required fee, test specimens can be sent to a local materials testing laboratory where the mechanical tests will be performed and from where the welder certification papers may be issued.

WELD 106

Pipe and Pressure Vessel Certification

Prerequisite: WELD 105

2 lectures per week: 2 hrs credit

This course prepares students for certification in the most advanced stage of welding. Emphasis is placed on welding a vessel or pipe which will be used for a high pressure application.

WELD 201

Advanced Gas Metal Arc Welding

Prerequisite: WELD 103

2 lectures per week: 2 hrs credit

Advanced gas metal arc welding techniques are taught. Topics include metal transfer, types of equipment and supplies, equipment set-up, and troubleshooting.

WELD 202

Advanced Gas Tungsten Arc Welding

Prerequisite: WELD 104

2 lectures per week: 2 hrs credit (may be repeated 3 times)

Advanced gas tungsten arc welding techniques are taught. Topics include types of equipment and supplies, equipment set-up, and open-root welding on plate and pipe.

