

COMPUTER SCIENCE: INFORMATION SYSTEMS EMPHASIS MAJORS (Suggested Associate in Science Degree Curriculum)

This worksheet is designed to help students select courses which are likely to apply to a **major in COMPUTER SCIENCE with an Information Systems emphasis**. These suggested courses satisfy requirements in the Associate in Science Degree program at Prairie State College and provide the basis for transferring to a four-year institution. This program meets the guidelines of the **IAI (Illinois Articulation Initiative) Baccalaureate Major Panel for Computer Science: Information Systems Emphasis**. Students should obtain a copy of the Prairie State College **Associate in Science Degree Worksheet** and should visit the IAI website at www.iTransfer.org for more information.

The “Information Systems (or business) Emphasis” focuses on the use of computer technology and information management methods to solve business problems. This requires an understanding of both the organizational context of the problem and the technologies, methodologies, and tools available in a variety of business applications. Baccalaureate schools may have multiple computing degree programs, often located in different departments, which focus on this major. In addition to being found in departments named Computer Science, an information systems major may be located in a Computer Information Systems department or in a variety of departments with a College of Business. Be sure to see a computer science advisor at the school to which you plan to transfer to select the appropriate program for your interests.

SUGGESTED CURRICULUM

Each senior institution has its own transfer policies. Therefore, we cannot guarantee the accuracy of this information in regard to every individual school. Consult the school of your choice and/or the Prairie State College Counseling and Academic Advising Center to discuss the transferability of courses.

TRANSFERABLE GENERAL EDUCATION CORE (38-40 credits)

Area A: Communications (9 credits)

ENG 101 (3) [C1 900]*	Composition I (Prereq. ENG 099, C or better, or qualifying score on English Placement Test)
ENG 102 (3) [C1 901R]*	Composition II (Prereq. ENG 101 with C or better)
COMM 101 (3) [C2 900]	Principles of Communication (Prereq. Placement in ENG 099 or above)

*Must have a C or better in ENG 101 & 102 to receive credit for the degree.

Area B: Humanities and Fine Arts (9 credits)

Select three courses with at least one course selected from the humanities area and one course from the fine arts area. Refer to the Associate in Science Degree Worksheet, Area B, for a listing of approved course choices.

Humanities Course (3)	Select any Area B Humanities Course (Prereq. Placement in ENG 099 or above)
Fine Arts Course (3)	Select any Area B Fine Arts Course (Prereq. Placement in ENG 099 or above)
Humanities/Fine Arts Course (3)	Select any Area B Course (Prereq. Placement in ENG 099 or above)

Area C: Mathematics (4-5 credits)

Select one math course. Consult your transfer school since different schools have different requirements.

MATH 155 (4) [M1 906]	Finite Mathematics (Prereq. MATH 151 with C or better or qualifying score on Math Placement Test) OR
MATH 157 (4) [M1 900-B]	Calculus for Business & Social Science (Prereq. MATH 151 with C or better or qualifying score on Math Placement Test) OR
MATH 171 (5) [M1 900-1]	Calculus with Analytic Geometry I (Prereq. MATH 165 with C or better or qualifying score on Math Placement Test)

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

Select one life science course and one physical science course. One course must have a lab component. Refer to the Associate in Science Degree Worksheet, Area D, for a listing of approved course choices.

PHYSI 210 (4) [P2 900L]	University Physics I (Prereq. MATH 171 and high school physics) Recommended
Life Science course (3-4)	Select any Area D Life Science Course (Prereq. Placement in ENG 099 or above)

Area E: Social and Behavioral Sciences (9 credits)

Select three courses in at least two different disciplines. Refer to the Associate in Science Degree Worksheet, Area E, for a listing of approved course choices.

ECON 201 (3) [S3 901]	Macroeconomic Principles (Prereq. Placement in ENG 099 or above)
ECON 202 (3) [S3 902]	Microeconomic Principles (Prereq. ECON 201)
Social/Behavioral Sci Course (3)	Select any Area E course, other than ECON (Prereq. Placement in ENG 099 or above)

COMPUTER SCIENCE/INFO SYSTEMS COURSE RECOMMENDATIONS (22-24 credits)

(Check with the school to which you plan to transfer to verify transferability of these courses for this major)

Select 22-24 credits from the “suggested” course recommendations listed below:

Suggested IAI Computer Science courses include:

MATH 210 (3) [CS 915] Discrete Mathematics (Prereq. MATH 151 or qualifying score on Math Placement Test)

Other suggested courses which satisfy the PSC AS degree requirements may include electives such as:

ITAPP 101 (3) [BUS 902] Introduction to Computers (Prereq. Keyboarding recommended)

BUS 131 (4) [BUS 903] Financial Accounting (Prereq. Placement in ENG 099 or above)

BUS 132 (3) [BUS 904] Managerial Accounting (Prereq. BUS 131)

BUS 240 (4) [BUS 901] Elementary Statistics (Prereq. MATH 151 or qualifying score on Math Placement Test)

Select one programming language sequence from the list below:

ITPRG 142 (3) Intro to Visual Basic Programming (Prereq. ITPRG 103 and Placement in ENG 099 or above) **AND**

ITPRG 242 (3) Advanced Visual Basic Programming (Prereq. ITPRG 142)

OR

ITPRG 144 (3) Intro to C++ Programming (Prereq. ITPRG 103 or IT 140 and Placement in ENG 099 or above) **AND**

ITPRG 244 (3) [CS 912] Advanced C++ Programming (Prereq. ITPRG 144)

OR

ITPRG 147 (3) [CS 911] Intro to JAVA Programming (Prereq. ITPRG 103 or IT 140 and Placement in ENG 099 or above) **AND**

ITPRG 247 (3) Advanced JAVA Programming (Prereq. ITPRG 147)

Any additional general education courses selected from Areas B, C, D, or E

Any entry level majors course in a transferable major area

Any foreign language courses*

Up to four credits of physical education courses

Additional courses recommended as transferable by the school to which you plan to transfer.

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

62 CREDITS REQUIRED FOR AN ASSOCIATE IN SCIENCE DEGREE

FOR FURTHER INFORMATION CONTACT:

Counseling and Academic Advising Center Room 1190 (708) 709-3506

INFORMATION TECHNOLOGY DEPARTMENT FACULTY:

Jackie Dennis, Associate Professor/Info Technology Room 2184 (708) 709-3649 jdennis@prairiestate.edu

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FOR TRANSFER INFORMATION:

u.select, formerly known as Course Applicability System (CAS): www.transfer.org/uselect

Illinois Articulation Initiative (IAI): www.iTransfer.org

Links to Articulation Tables for Illinois Colleges: <http://www.itransfer.org/IAI/Other/Articulationlinks.taf>

Visit the web sites of colleges and universities to which you plan to transfer.

FOR CAREER INFORMATION:

Occupational Outlook Handbook, U.S. Department of Labor: <http://www.bls.gov/oco/home.htm>