

**COMPUTER INFORMATION SYSTEMS
INFORMATION MANAGEMENT (INM)
(HEGIS 5101)**

The Information Management program is designed for students interested in transferring to a four-year baccalaureate-granting institution.

The program will provide students with a basic foundation in information systems, information technology and information management. It is recommended for transfer students planning to earn baccalaureate degrees in such programs of study as Computer Information Systems, Management Information Systems, and Information Technology, Health Information Management, Security Information Management and Computer Networking.

The Associate of Science (A.S.) degree is awarded upon completion of this program.

Upon successful completion of the INM program the student will:

1. Appropriately utilize data and information by:
 - a. differentiating between data and information,
 - b. critically discerning the quality of the data,
 - c. identifying the parameters and constraints in the storage and transmission of data.
2. Effectively manage Information Technology (IT) projects by:
 - a. identifying the scope, resources, budget, timeline, and critical path,
 - b. using project management software.
3. Effectively design and implement IT solutions based on the analysis of business needs by:
 - a. selecting the appropriate software to solve a particular business problem,
 - b. producing comprehensive and usable documentation for business solutions,
 - c. designing, organizing, and implementing database solutions to business problems,
 - d. updating, deleting and adding data to relational database management systems,
 - e. differentiating between hardware and software issues relating to the management of information,
 - f. writing programs to process data and produce information,
 - g. utilizing word processors, spreadsheets and other client software to solve a business need,
 - h. integrating the available application software to maximize the data management strengths of the individual products,
 - i. utilizing the functions of at least one operating system to implement an IT solutions,
 - j. designing effective reports and choosing the appropriate software to create and update the reports.
4. Identify and apply methods to assure appropriate data security and risk management by:
 - a. identifying and mitigating the risks to data,
 - b. identifying security threats to both stored and transmitted data,
 - c. designing effective defenses for both stored and transmitted data.

Courses should be selected in consultation with an advisor.

| Course No. | Descriptive Title | Cr. Hrs. |
|-----------------------------------|-----------------------------|--------------|
| FIRST SEMESTER | | |
| ENG 101 | Composition I | 3 |
| CIS 111 | Computer Sys & Application | 3 |
| CIS 100 | Introductory Seminar | 1 |
| MAT Course (a) | | 3-4 |
| CIS 112 or CIS 113 or CPS 141 (b) | | 3-4 |
| BHS 103 | Social Problems | <u>3</u> |
| | TOTAL CREDITS | 16-18 |
| SECOND SEMESTER | | |
| ENG 102 | Composition II | 3 |
| MAT Course (a) | | 3-4 |
| Interest Area Course (c) | | 3 |
| Interest Area Course (c) | | 3 |
| General Education Course (d) | | <u>3</u> |
| | TOTAL CREDITS | 15-16 |
| THIRD SEMESTER | | |
| CIS 212 | Systems Analysis & Design | 3 |
| HIS 104 or HIS 121 or HIS 108 | | 3 |
| Interest Area Course (c) | | 3 |
| ACC/BUS/CIS/ECO Course (e) | | <u>3</u> |
| Science Course (f) | | <u>4</u> |
| | TOTAL CREDITS | 16 |
| FOURTH SEMESTER | | |
| CIS213 | Data Management Concepts | 3 |
| WFE 101 | Lifetime Wellness & Fitness | 3 |
| Interest Area Course (c) | | 3 |
| Interest Area Course (c) | | 3 |
| Transfer Course (g) | | 3-4 |
| Free Elective | | <u>3-4</u> |
| | TOTAL CREDITS | 18-20 |
| | TOTAL CREDIT HOURS | 65 |

a. Students must select from MAT110, MAT 118, MAT 125, MAT 184, MAT 185, MAT 214, MAT 221, MAT222.

b. CIS112, as an introductory programming course, is strongly recommended for most students. In particular, students undecided about choosing the Information Management degree or the Computer Information Systems degree should choose CIS112. Students, with advisement, may opt to choose CIS113 or CPS141 for transfer purposes. Also, with permission of the program chair person, the student may select one of the courses as an Interest Area elective.

c. Interest Area Course: Students must select five courses from the following list. Courses should be selected based on the requirements of the anticipated transfer school. Consult your advisor. See Advisement Note below. ACC 104, ACC 204, ART 163, ART 263, BUS 104, BUS 107, BUS 215, CIS 107 or CIS 108, CIS 114, CIS 117, CIS120, CIS 123, CIS 124, CIS 126, CIS 140, CIS 150, CIS 214, CIS 215, CIS 216, CIS 217, CIS 211, CIS 218, CIS 223, CIS 226, CIS 227, CIS 228, CIS 233, CIS 235, CRJ 141, CRJ 261

Notes continue on next page.

d. Courses which meet the SUNY General Education requirement are listed on page 99. Students should select a course from a SUNY General Education subject area not met by another elective or required courses in the program.

e) ACC/BUS/CIS/ECO Course: Students must select one course from the following list. ACC 104, ACC 204, BUS 104, BUS 107, BUS 215, CIS 107, ECO 201, ECO 202. Courses should be selected based on the requirements of the anticipated transfer school, in consultation with an advisor.

f) Students must take a science course that fulfills the natural science general education requirement see page 99.

g) Any math course listed in note(a), ECO 201, ECO 202.

Advisement Note: Based upon the student's interest area (c), the following courses are recommended: (Note: The courses listed in **bold** are strongly recommended)

Security Information Management: **CIS 117, CIS126, CIS150**, CIS 107, CIS 133, CIS 216, CIS 226, CRJ 141, CRJ 261

Management Information Systems: **BUS104, BUS107, BUS215**, CIS 107 or CIS 108, CIS 140, CIS150, CIS 216, CIS 217

Software Development Systems: **CIS 114, CIS 214, CIS 215**, CIS 126, CIS 226, CIS 227, CIS 235

Web Administration: **CIS107, CIS120, CIS228**, CIS126, CIS 226, CIS233, ART 163, ART 263

Business Programming: **CIS 123, CIS 211**, CIS 124, CIS 223, CIS 227, **CIS 233**

Computer Networking: **CIS 117, CIS 126, CIS 216**, CIS 124, CIS 217, CIS 218, CIS 233