COMPUTER SCIENCE/COMPUTER INFORMATION SYSTEMS

Program Code:

Computer Science: *T.CSC.AS.TEC*

Associate in Science (A.S.)
Graduation requirement — 60 semester hours

Baccalaureate degree programs in Information Technology have traditionally grown from a number of different disciplines, including Mathematics, Business, and Engineering. Computer Science (CS) degrees usually have a general theoretical emphasis. Computer Information Systems (CIS) degrees have more of a business emphasis. Computer Engineering degrees have a hardware emphasis. At the two year level, either the CS or CIS degree provides a good foundation for further study in most fields of Computer Science. Engineering degrees are most specific to future engineering study. To transfer into a baccalaureate degree program in Computer Science as a junior, students need to complete a minimum of 60 semester credits. Students are strongly encouraged to complete an A.S. degree prior to transfer. Since admission is competitive, completion of the recommended courses does not guarantee admission.

Students should plan their transfer programs with a faculty advisor and the catalog of the four-year college or university they plan to attend.

Program Notes*

- Prerequisites for MAT 128 are MAT 124 and MAT 125.
- PHY 141 is required for students planning to transfer to UIUC and others.
- IAI CS 922, Computer Organization, is not offered at Parkland. Check with your transfer institution to see if it is required in their program.
- Computer Information Systems transfers to UIUC School of Business, Management Information Systems.
- General Education Core Curriculum requirements for the Associate in Science (A.S.) degree do not fully satisfy the IAI General Education Core Curriculum (GECC) requirements. Additional courses to complete the GECC may be taken at Parkland or after transferring. Contact Academic Advising for guidance on completing the GECC.
- Recommended courses are designed to facilitate completion of the A.S. degree and transfer into a four-year college or university with junior standing. Students are strongly advised to follow the recommendations.

Suggested Full-time Sequence
COMPUTER SCIENCE

FALL *1st Semester*	*SPRING* *2nd Semester*
CSC 123	CSC 125
MAT 128	MAT 129
ENG 101 *or* ENG 106	ENG 102 or ENG 220
Hum elec	PHY 141
Soc/Beh Sci elec	

FALL *3rd Semester*	*SPRING* *4th Semester*
COM 103	CSC 220
MAT 228	MAT 200
PHY 142	Fine Arts elec
Life Sci elec	Soc/Beh Sci elec

COMPUTER SCIENCE CONCENTRATION (TECHNICAL EMPHASIS)

Program Code: T.CSC.AS.TEC

General Education Core Courses* (32–34 hours)

Cr. Hrs.

Communications (9)

ENG 101	Composition I	3
ENG 102	Composition II	3
COM 103	Introduction to Public Speaking	3

Humanities/Fine Arts electives 6

- *Must choose one course from Humanities and one from Fine Arts*

Social/Behavioral Sciences electives 6

- *The Soc/Beh Sci courses must be from two different disciplines*
- *One course from Hum/Fine Arts or Soc/Beh Sci must fulfil the non-Western culture requirement*

Mathematics elective 3–5

Recommended: MAT 128* Calculus and Analytic Geometry I (5)

Life Sciences (laboratory-based) elective 4

Physical Sciences (laboratory-based) elective 4

Recommended: PHY 141* Mechanics (4)

A.S. Degree Required Courses (8 hours)

Must include one additional mathematics and one additional physical or life science course.

Any AST, BIO, CHE, ESC, PHY, or SCI courses numbered 100 through 289 whose second digit is even, beyond the general education requirements in science, may fulfill the additional science course requirement.

Recommended:

MAT 129	Calculus and Analytic Geometry II	4
PHY 142	Electricity and Magnetism	4

Recommended* Computer Science Concentration Courses (17 hours)

CSC 123	Computer Science I (C/C++)	4
CSC 125	Computer Science II (C++)	3
CSC 220	Data Structures	3
MAT 200	Introduction to Discrete Mathematics	3
MAT 228	Calculus and Analytic Geometry III	4

Electives (1–3 hours)

Select courses to meet the minimum 60-hour graduation requirement.

Elective 1–3

Total Semester Credit Hours 60