

COMPUTER SCIENCE/COMPUTER INFORMATION SYSTEMS

www.parkland.edu/csit

Program Codes:

Computer Science: T.CSC.AS.TEC

Computer Information Systems: T.CSC.AS.BUS

Associate in Science (A.S.)

Minimum 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 CSIT faculty advisor and the catalog of the four-year college or university they plan to attend.

Program Notes*

- MAT 124 and 125 are prerequisites for MAT 128.
- 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 after transferring.

Suggested Full-time Sequence

COMPUTER SCIENCE

FALL

1st Semester

CSC 123

MAT 128

ENG 101 or

ENG 106

Hum elec

Soc/Beh Sci elec

SPRING

2nd Semester

CSC 125

MAT 129

ENG 102 or

ENG 220

PHY 141

FALL

3rd Semester

COM 103

MAT 228

PHY 142

Life Sci elec

SPRING

4th Semester

CSC 220

MAT 200

Fine Arts elec

Soc/Beh Sci elec

COMPUTER INFORMATION SYSTEMS

FALL

1st Semester

CIS 200

MAT 128 or MAT 145

ENG 101 or ENG 106

CIS 122

Phy Sci elec

SPRING

2nd Semester

CSC 140

ACC 101

ECO 101

MAT 129 or MAT 143

Hum elec

FALL

3rd Semester

CSC 256

ACC 102

ENG 102 or ENG 220

Fine Arts elec

Life Sci elec

SPRING

4th Semester

MAT 141

ECO 102

COM 103

PSY 101

Phys/Life Sci elec

COMPUTER SCIENCE/COMPUTER INFORMATION SYSTEMS

continued

COMPUTER SCIENCE (TECHNICAL EMPHASIS)

Program Code: T.CSC.AS.TEC

General Education Core Courses* (34 hours)

	Cr. Hrs.
Communications (9)	
ENG 101 Composition I	3
ENG 102 Composition II	3
COM 103 Introduction to Public Speaking	3
Humanities elective	3
Fine Arts elective	3
Social/Behavioral Sciences (6)	6
Choose from two disciplines. <i>One course from Soc/Beh, Hum, or FA must fulfill the non-Western culture requirement.</i>	
Mathematics (5)	
MAT 128* Calculus and Analytic Geometry I	5
Physical Sciences (4)	
PHY 141* Mechanics	4
Life Sciences elective	4

A.S. Degree Required Courses (8 hours)

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

Required 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

General Electives (0–3 hours)

General elective	3
Total Semester Credit Hours	61–62

COMPUTER INFORMATION SYSTEMS (INFORMATION SYSTEMS EMPHASIS)

Program Code: T.CSC.AS.BUS

General Education Core Courses (33–34 hours)

	Cr. Hrs.
Communications (9)	
ENG 101 Composition I	3
ENG 102 Composition II	3
COM 103 Introduction to Public Speaking	3
Humanities elective	3
Fine Arts elective	3
<i>One course from Hum or FA must fulfill the non-Western culture requirement.</i>	
Social/Behavioral Sciences (6)	6
ECO 101 Principles of Macroeconomics	3
ECO 102 Principles of Microeconomics	3
Mathematics (4–5)	
MAT 128* Calculus and Analytic Geometry I	5
or MAT 145 Linear Algebra for Business	4
Physical Sciences elective	4
Life Sciences elective	4

A.S. Degree Required Courses (8 hours)

One additional mathematics course	
MAT 129 Calculus and Analytic Geometry II	4
or MAT 143 Calculus for Business and Social Sciences	4
One additional Physical or Life Sciences elective	4

Required Computer Science (Information Systems) Concentration Courses (17 hours)

CSC 140 Computer Science I (Java)	3
CSC 256 Computer Science II (Java)	3
CIS 200 Business Computer Systems	3
ACC 101 Financial Accounting	4
MAT 141 Finite Mathematics	4

General Electives (0–3 hours)

General elective	3
Total Semester Credit Hours	61–62