

Computer Science – Systems Engineering Technology (SET)

Program: **Computer Science**

OPTION VI - AAS SYSTEMS ENGINEERING TECHNOLOGY - Guided Pathways/Map

1st Semester

Item #	Title	Credits
ORI 110	Freshman Seminar	1
CIS 134	IT Fundamentals	3
CIS 150	Introduction to Computer Logic and Programming	3
CIS 222	Database Management Systems	3
ENG 101	English Composition I	3
SYS 101	Introduction to Systems Engineering	3
	Sub-Total Credits	16

2nd Semester

Item #	Title	Credits
CIS 199	Network Communications	3
CIS 251	C++ Programming	3
MTH 100	Intermediate College Algebra	3
SYS 221	Database Management for Systems Engineering	3
	Sub-Total Credits	12

3rd Semester

Item #	Title	Credits
CIS 202	Python Programming	3
CIS 211	Principles of Information Assurance	3
BUS 271	Business Statistics I	3
SYS 231	Systems Modeling I	3
	Sub-Total Credits	12

4th Semester

Item #	Title	Credits
CIS 280	Network Security	3
CIS 255	JAVA Programming	3
MTH 112	Precalculus Algebra	3
SPH 106	Fundamentals of Oral Communication	3
SYS 232	Systems Modeling II	3
	Sub-Total Credits	15

5th Semester

IDS 102: *May be substituted per advisor's approval

Item #	Title	Credits
ECO 231	Principles of Macroeconomics	3
IDS 102	Ethics	3
SYS 233	Systems Modeling III	3
SYS 241	Dynamic Data Visualization Applications	3
	Sub-Total Credits	12
	Total credits:	67