



PATHWAYS



**YOUR MAP TO
COMPLETION for
2025-2026**

Computer Science – Systems Engineering Technology (SET) Associate in Applied Science / Short-Term Certificate

Full Time	Course Prefix	Course Description	Credit Hours	Semesters Offered	Area
Fall 1	ORI 110	Freshman Seminar	1	Fa Sp Su	V
	ENG 101	English Composition I	3	Fa	I
	CIS 134	IT Fundamentals	3	Fa Sp Su	V
	CIS 150	Introduction to Computer Logic and Programming	3	Fa	V
	CIS 222	Database Management Systems	3	Fa	V
	SYS 101	Introduction to Systems Engineering	3	Fa	V
Spring 1	IDS 102*	Ethics	3	Fa Sp Su	II
	MTH 100*	Intermediate College Algebra	3	Fa Sp Su	III
	BUS 271	Business Statistics I	3	Fa Sp Su	V
	CIS 199	Network Communications	3	Fa Sp Su	V
	CIS 251	C++ Programming	3	Fa Sp	V
	SYS 231	Systems Modeling I	3	Sp	V
**Summer					
Fall 2	CIS 211	Principles of Information Assurance	3	Fa Sp Su	V
	CIS 255	Java Programming	3	Fa	V
	CIS 280	Network Security	3	Fa	V
	SPH 106	Fundamentals of Oral Communication	3	Fa Sp Su	V
	SYS 221	MBSE in Digital Environment	3	Fa	V
	SYS 232	Systems Modeling II	3	Fa	V
Spring 2	MTH 112	Precalculus Algebra	3	Fa Sp Su	III
	ECO 231	Principles of Macroeconomics	3	Fa Sp Su	IV
	CIS 202	Python Programming	3	Sp Su	V
	SYS 233	Systems Modeling III	3	Spring	V
	SYS 241	Systems Engineering Technology Capstone	3	Spring	V
Systems Engineering Technology AAS TOTAL HOURS 67					
Systems Engineering Short Term Certificate TOTAL HOURS 18					
Programming Short-Term Certificate TOTAL HOURS 12					

* May be substituted per Computer Instructors Approval's approval

** Summer semester reserved for non-credit internship

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