

Computer Information Science, A.A.S.

After completing the Core Technical Course Requirements in Areas I-V, students will choose from the following concentrations: Cyber Defense, Google IT Support Professional, Mobile App Development, or Software Development.

Program: [Computer Information Science](#)

Type: Associate in Applied Science

Area I: Written Composition

Item #	Title	Credits
ENG 101	English Composition I	3

Area II: Humanities and Fine Arts

Item #	Title	Credits
	Speech	3

Area III: Natural Sciences and Mathematics

Item #	Title	Credits
MTH 100	Intermediate College Algebra	3
	Science/Math Elective	3-4

Area IV: History, Social and Behavioral Sciences

Item #	Title	Credits
	History/Behavioral Science/Social Science Elective	3

Area V: Career and Technical Courses

Item #	Title	Credits
CIS 113	Spreadsheet Software Applications	3
CIS 117	Database Management Software Applications	3
CIS 134	IT Fundamentals	3
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic and Programming	3
CIS 161	Introduction to Networking Communications	3
CIS 171	Linux I	3
CIS 182	Help Desk Applications	3
CIS 202	Python Programming	3
CIS 207	Web Development	3
CIS 245	Cyber Defense	3
CIS 268	Software Support	3
CIS 269	Hardware Support	3
	ORI 101 OR ORI 105	1-3

CYBER DEFENSE CONCENTRATION

Item #	Title	Credits
CIS 246	Ethical Hacking	3
CIS 280	Network Security	3
CIS 282	Computer Forensics	3

GOOGLE IT SUPPORT PROFESSIONAL CONCENTRATION

Item #	Title	Credits
CIS 120	Google IT Professional Support I–Technical Support Fundamentals	3
CIS 121	Google IT Professional Support II–Computer Networking	3
CIS 122	Google IT Professional Support III–Operating Systems	3
CIS 123	Google IT Professional Support IV–System Administration and IT Infrastructure	3
CIS 124	Google IT Professional Support V–IT Security	3

MOBILE APP DEVELOPMENT CONCENTRATION

Item #	Title	Credits
CIS 219	Android App Development	3
CIS 259	Advanced Mobile App Development	3
CIS 285	Object-Oriented Programming	3

SOFTWARE DEVELOPMENT CONCENTRATION

Item #	Title	Credits
CIS 251	C++ Programming	3
CIS 285	Object-Oriented Programming	3
CIS 212	Visual Basic Programming	3
	Total credits:	Total Credits
		64-73

Course Sequencing

Cyber Defense Associate in Applied Science Degree Suggested Course Sequence FIRST SEMESTER

Item #	Title	Credits
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
	ORI 101 OR ORI 105	1-3
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic and Programming	3

Cyber Defense Associate in Applied Science Degree Suggested Course SECOND SEMESTER

Item #	Title	Credits
CIS 134	IT Fundamentals	3
CIS 171	Linux I	3
CIS 202	Python Programming	3
CIS 268	Software Support	3
	Science/Math Elective	3-4

Cyber Defense Associate in Applied Science Degree Suggested Course Sequence THIRD SEMESTER

Item #	Title	Credits
CIS 161	Introduction to Networking Communications	3
CIS 245	Cyber Defense	3
	Speech	3
	History/Behavioral Science/Social Science Elective	3

Cyber Defense Associate in Applied Science Degree Suggested Course Sequence FOURTH SEMESTER

Item #	Title	Credits
CIS 113	Spreadsheet Software Applications	3
CIS 207	Web Development	3
CIS 280	Network Security	3
CIS 282	Computer Forensics	3

Cyber Defense Associate in Applied Science Degree Suggested Course Sequence FIFTH SEMESTER

Item #	Title	Credits
CIS 117	Database Management Software Applications	3
CIS 182	Help Desk Applications	3
CIS 246	Ethical Hacking	3
CIS 269	Hardware Support	3

Google IT Support Professional Associate in Applied Science Degree Suggested Course Sequence FIRST SEMESTER

Item #	Title	Credits
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic and Programming	3
	ORI 101 OR ORI 105	1-3

Google IT Support Professional Associate in Applied Science Degree Suggested Course Sequence SECOND SEMESTER

Item #	Title	Credits
CIS 134	IT Fundamentals	3
CIS 171	Linux I	3
CIS 202	Python Programming	3
CIS 268	Software Support	3
	Science/Math Elective	3-4

Google IT Support Professional Associate in Applied Science Degree Suggested Course Sequence THIRD SEMESTER

Item #	Title	Credits
CIS 120	Google IT Professional Support I–Technical Support Fundamentals	3
CIS 121	Google IT Professional Support II–Computer Networking	3
CIS 161	Introduction to Networking Communications	3
CIS 245	Cyber Defense	3
	Speech	3

Google IT Support Professional Associate in Applied Science Degree Suggested Course Sequence FOURTH SEMESTER

Item #	Title	Credits
CIS 113	Spreadsheet Software Applications	3
CIS 122	Google IT Professional Support III–Operating Systems	3
CIS 123	Google IT Professional Support IV–System Administration and IT Infrastructure	3
CIS 207	Web Development	3

Google IT Support Professional Associate in Applied Science Degree Suggested Course Sequence FIFTH SEMESTER

Item #	Title	Credits
CIS 117	Database Management Software Applications	3
CIS 124	Google IT Professional Support V–IT Security	3
CIS 182	Help Desk Applications	3
CIS 269	Hardware Support	3
	History/Behavioral Science/Social Science Elective	3

Mobile App Development Associate in Applied Science Degree Suggested Course Sequence FIRST SEMESTER

Item #	Title	Credits
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic and Programming	3
	ORI 101 OR ORI 105	1-3

Mobile App Development Associate in Applied Science Degree Suggested Course Sequence SECOND SEMESTER

Item #	Title	Credits
CIS 134	IT Fundamentals	3
CIS 171	Linux I	3
CIS 202	Python Programming	3
CIS 268	Software Support	3
	Science/Math Elective	3-4

Mobile App Development Associate in Applied Science Degree Suggested Course Sequence THIRD SEMESTER

Item #	Title	Credits
CIS 161	Introduction to Networking Communications	3
CIS 245	Cyber Defense	3
CIS 285	Object-Oriented Programming	3
	Speech	3

Mobile App Development Associate in Applied Science Degree Suggested Course Sequence FOURTH SEMESTER

Item #	Title	Credits
CIS 113	Spreadsheet Software Applications	3
CIS 207	Web Development	3
CIS 219	Android App Development	3
	History/Behavioral Science/Social Science Elective	3

Mobile App Development Associate in Applied Science Degree Suggested Course Sequence FIFTH SEMESTER

Item #	Title	Credits
CIS 117	Database Management Software Applications	3
CIS 182	Help Desk Applications	3
CIS 259	Advanced Mobile App Development	3
CIS 269	Hardware Support	3

Software Development Associate in Applied Science Degree Suggested Course Sequence FIRST SEMESTER

Item #	Title	Credits
ENG 101	English Composition I	3
MTH 100	Intermediate College Algebra	3
	ORI 101 OR ORI 105	1-3
CIS 146	Microcomputer Applications	3
CIS 150	Introduction to Computer Logic and Programming	3

Software Development Associate in Applied Science Degree Suggested Course Sequence SECOND SEMESTER

Item #	Title	Credits
CIS 134	IT Fundamentals	3
CIS 171	Linux I	3
CIS 202	Python Programming	3
CIS 268	Software Support	3
	Science/Math Elective	3-4

Software Development Associate in Applied Science Degree Suggested Course Sequence THIRD SEMESTER

Item #	Title	Credits
CIS 161	Introduction to Networking Communications	3
CIS 245	Cyber Defense	3
CIS 285	Object-Oriented Programming	3
	Speech	3

Software Development Associate in Applied Science Degree Suggested Course Sequence FOURTH SEMESTER

Item #	Title	Credits
CIS 113	Spreadsheet Software Applications	3
CIS 207	Web Development	3
CIS 251	C++ Programming	3
	History/Behavioral Science/Social Science Elective	3

Software Development Associate in Applied Science Degree Suggested Course Sequence FIFTH SEMESTER

Item #	Title	Credits
CIS 117	Database Management Software Applications	3
CIS 182	Help Desk Applications	3
CIS 212	Visual Basic Programming	3
CIS 269	Hardware Support	3