

COMPUTER APPLICATION DEVELOPMENT, EMPHASIS

- General Education Course

- Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at <https://www.marshall.edu/gened/>.

Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
STA 225	Introductory Statistics (CT)	3
	Critical Thinking Course	3
<i>Core 2</i>		
ENG 101	Beginning Composition	3
ENG 201	Advanced Composition	3
CMM 103	Fund Speech-Communication	3
MTH 140	Applied Calculus	3
NRE 111	Living Systems	4
	or BSC 104 Introduction to Biology	
	Core II Humanities	3
	Core II Social Science	3
	Core II Fine Arts	3
<i>Additional University Requirements</i>		
	Writing Intensive	3
	Writing Intensive	3
	Multicultural or International	3
CIT 490	Capstone Project in CIT	3
	or CIT 470 Internship in CIT	
Major-Specific		
IST 150	Spreadsheet & Database Prin	3
CS 105	Expl World with Computing (CT)	3
CS 110	Computer Science I	3
CS 120	Computer Science II	3
CS 210	Data Structures and Algorithms	3
CIT 260	Instrumentation	3
CIT 265	C# NET Programming	3
	or CIT 266 Applied C++ Programming	
CIT 263	Web Programming I	3
CIT 313	Web Programming II	3

CIT 332	Software Engineering I	3
CIT 333	Software Engineering II	3
CIT 352	Network Protocols and Admin	3
CIT 365	Database Management	3
ART 214	Foundations: Grid/Chroma	3
	or ART 219 Foundations: Frame/Time	
MGT 320	Principles of Management	3
CIT 490	Capstone Project in CIT (C)	3
	or CIT 470 Internship in CIT	
MTH 140	Applied Calculus	3
MTH 220	Discrete Structures	3
STA 225	Introductory Statistics (CT)	3
NRE 212	Energy	3
NRE 111	Living Systems	4
	or BSC 104 Introduction to Biology	
	Physical/Natural Science Elective	4

Area of Emphasis-Specific

CIT 410	Electronic Commerce	3
CIT 466	Database Programming	3
	CIT Technical 300/400 Elective	3
	CIT Technical 300/400 Elective	3
	CIT Technical 300/400 Elective	3
NRE 423	GIS and Data Systems	3
	Free Elective	3
	Free Elective	3
	Free Elective	2

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Coursework listed as “elective” may vary for each student. Students are encouraged to use elective hours toward a minor or toward prerequisites.
- Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities requirement as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 24 or higher. Students with an ACT Mathematics score less than 24 will be placed in the appropriate prerequisite mathematics and science courses.
- The Computer and Information Technology major is a four-year program that requires a minimum of 120 credit hours, 40 of which must be at the 300-400 level.