♦ Major Requirement

General Education Requirement

$\Gamma ext{ER INFO }\& ext{TECH}$ WEB APP DEVELOPMENT

REQUIREMENTS

CORE CURRICULUM

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 marshall.edu/gened.

ORE 1: CRIT	FICAL THINKING				COI	RE 2:					
CODE	COURSE NAME		HRS	GRADE		CODE CO	OURSE NAME		HRS	GRADE	
FYS 100	First Year Seminar	•	3			ENG 101	Beginning Composition	•	3		
CS 105	Critical Thinking Course	•	3			ENG 201	Advanced Composition	•	3		
	Critical Thinking Course	•	3			CMM 103	Fund Speech-Communication	•	3		
						MTH 140	Mathematics	• •	5		
Addition	al University Requirements Writing Intensive		3			NRE 111 or BSC 104	Core II Physical/Natural Science	• •	4		
	Writing Intensive		3				Core II Humanities	•	3		
	Multicultural or International		3				Core II Social Science	•	3		
CIT 490/470	Capstone		3				Core II Fine Arts	•	3		

MAJOR

All Computer Information Technology majors are required to take the following courses:

	CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
	CIT 150	Spreadsheet & Database Prin	•	3		CIT 365	Database Management	•	3	
	CS 105	Expl World with Computing (CT)	•	3		ART 214	Foundations: Grid/Chroma or	•	3	
	CS 110	Computer Science I	•	3		or 219	Foundations: Frame/Time			
	CS 120	Computer Science II	•	3		MGT 320	Principles of Management	•	3	
	CS 210	Data Structures and Algorithms	•	3		CIT	Senior Project or Internship (C)	•	3	
***	CIT 260	Instrumentation	•	3		490/470				
***	CIT 263	Web Programming I	•	3		MTH 140	Applied Calculus	• •	3	
	CIT 265 or	C# NET Programming or Applied	•	3		MTH 220	Discrete Structures	• •	3	
	CIT 266	C++ Programming				IST 111 or	Living Systems or Introduction to	•	4	
	CIT 313	Web Programming II	•	3		BSC 104	Biology			
	CIT 332	Software Engineering I	•	3		NRE 212	Energy	•	3	
	CIT 333	Software Engineering II	•	3			Physical/Natural Science Elective	•	4	
	CIT 352	Network Protocols and Admin	•	3		STA 150	Foundations of Statistics	•	3	
						STA 150L	Foundations of Statistics Lab	•	1	

AREA OF EMPHASIS

Students who wish to add an area of emphasis in Computer and Web Application Development must take the following courses:

CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
CIT 466	Database Programming	•	3		CIT 416	Advanced Web Programming	•	3	
	CIT 300/400 Technical Elective	•	3			Free Elective		3	
	CIT 300/400 Technical Elective	•	3			Free Elective		2	
	CIT 300/400 Technical Elective	٠	3						

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 prerequisities.
- 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.

🗬 Milestone Course: This is a key success marker for your major. See your advisor to discuss importance of this course in your plan of study.

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.

YEAR THREE

Area of Empahsis

YEAR FOUR

OMPUTER INFO & TECH OMPUTER AND WEB APP

A major in Computer and Information Technology provides a solid grounding in the information technology field. CIT is a cutting-edge program rooted and grounded in courses that are both highly theoretical while also extremely applied in nature. It focuses on the development of computer applications for business, industry, and education that run on the personal computer or that integrate various hardware pieces into the computer system as a whole. Students will learn the software engineering process and project management and learn to program in languages such as C++ and C#. Students also learn to specify, design, and build large-scale software systems for existing hardware.

		FALL SEMESTER						SPRING SEMESTER			
	CODE COL	JRSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
	CIT 150	Spreadsheet & Database Prin	•	3			CS 110	Computer Science I	•	3	
	ENG 101	Beginning Composition	•	3		***	CMM 103	Fund Speech Communication	•	3	
囶	NRE 111 or	Living Systems or Introduction	• •	4			ENG 201	Advanced Composition	•	3	
NO	BSC 104/104L	to Biology w/ Lab					FYS 100	First Year Sem Crit Thinking	•	3	
AR (Multicultural or International	•	3			MTH 140	Applied Calculus	• •	3	
EA	CS 105	Expl World with Computing	•	3							
Y	UNI 100	Freshman First Class		1							
	TOTAL HOURS			17			TOTAL HO	DURS		15	
	Summer Term (optiona	I):									

			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
		CS 120	Computer Science II	•	3			ART 214 or	Foundations: Grid/Chroma or	•	3	
	**	CIT 260	Instrumentation	•	3			219	Foundations: Frame/Time			
0	(CIT 263	Web Programming I	•	3			CS 210	Data Structures and Algorithms	•	3	
TW			Core II Fine Arts	•	3		•	CIT 313	Web Programming II	•	3	
떠		MTH 220	Discrete Structures	• •	3				Social Science	•	3	
ΕA								STA 150	Foundations of Statistics	•	3	
7								STA 150L	Foundations of Statistics Lab	•	1	
		TOTAL HO	DURS		15			TOTAL HOU	URS		16	

Summer	Term	(optional	1

HRS	GRADE
3	
3	
3	
4	
3	
	3 3 3 4

TOTAL HOURS

TOTAL HOURS

TOTAL HOURS Summer Term (optional):

	FALL SEMESTER					SPRING SEMESTER	ł		
CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
CIT 352	Network Protocols and Admin	•	3			CIT 300/400 Technical Elective	•	3	
CIT 466	Database Programming	•	3		MGT 320	Principles of Management	•	3	
NRE 212	Energy	•	3			Free Elective		3	
	Writing Intensive	•	3		CIT	Senior Project or Internship	• •	3	
	Free Elective		2		490/470				

TOTAL HOURS Summer Term (optional): 🗬 Milestone Course: This is a key success marker for your major. See your advisor to discuss importance of this course in your plan of study.

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