

#3525
INFORMATION TECHNOLOGY

NOTES:

To determine the transferability of your courses to participating NJ Colleges & Universities, access www.njtransfer.org.

Certificates of Achievement: See your academic advisor to ensure you have declared a Certificate on your academic record.

^{IS} A certificate in **Information Security** may be earned by completing five courses notated as IS.

^{DA} A certificate in **Data Analytics** may be earned by completing five courses notated as DA.

****See back page for more information on Technical Track Electives. Specific courses are required if you are interested in completing a Certificate in **Web Development, Information Security** or **Data Analytics**.**

COURSE	CODE	CR	GR	TR
GENERAL EDUCATION FOUNDATION (20 CR)				
COMMUNICATION (6 CR)				
English Composition I	ENG 111	3		
English Composition II	ENG 112	3		
MATH/SCIENCE/TECHNOLOGY (3 CR)				
Computer Science I ^{IS, WD}	CMP 128	3		
HUMANITIES/SOCIAL SCIENCE (3 CR)*				
Choose from General Education course list (Humanities/Social Science)		3		
GENERAL EDUCATION ELECTIVES (8 CR)				
Probability & Statistics ^{DA}	MAT 130	4		
Laboratory Science*		4		
INFORMATION TECHNOLOGIES CORE (40 CR)				
Intro to Information Technology	CMP 130	3		
Computers and Data Networks	TEL 107	3		
Routing I	TEL 110	3		
Foundations of Info Security ^{IS}	CMP 120	3		
Operating Systems & Utilities	CMP 200	3		
Linux	CMP 255	4		
Fundamentals of Prog. (Python) ^{DA}	CMP 131	3		
Internet & Web Page Design ^{WD}	CMP 239	3		
Database Programming (SQL) ^{DA}	CMP 241	3		
Software Engineering ^{IS, WD}	CMP 280	3		
Technical Track Electives**		9		
TOTAL		60		

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Suggested Sequence by Semester

*This suggested sequence does not include any required developmental courses.
Degree completion time may vary depending upon the number of credits taken each semester.*

SEMESTER I			CREDITS	SEMESTER II			CREDITS
Intro to Information Technology	CMP 130	3		Computer Science I	CMP 128	3	
Internet & Web Page Design	CMP 239	3		English Composition II	ENG 112	3	
English Composition I	ENG 111	3		Technical Track Elective		3	
Fundamentals of Prog. (Python)	CMP 131	3		Computers and Data Networks	TEL 107	3	
Probability & Statistics	MAT 130	<u>4</u>		Operating Systems & Utilities	CMP 200	<u>3</u>	
TOTAL			16	TOTAL			15
SEMESTER III				SEMESTER IV			
Linux	CMP 255	4		Laboratory Science		4	
Foundations of Info Security	CMP 120	3		Software Engineering	CMP 280	3	
Database Programming (SQL)	CMP 241	3		Technical Track Elective		3	
Technical Track Elective		3		Humanities/Social Science Elective		<u>3</u>	
Routing I	TEL 110	<u>3</u>					
TOTAL			16	TOTAL			13

HUMANITIES/SOCIAL SCIENCE: Select one three-credit Humanities/Social Science elective from the list of approved General Education courses.

LABORATORY SCIENCE: Choose a 4-credit laboratory science course from the approved General Education (Science) course list.

GENERAL EDUCATION: [Click here for the most recent General Education course list.](#)

TECHNICAL TRACK ELECTIVES (9 CR): Complete 3 courses totaling 9 credits from one of the following technical tracks:

- Students may take **CMP 296/297/298** Cooperative Work Experience as a suitable substitute for any track elective.
- In addition to the courses below, students may select TEL 233, Network Operating Systems
- Note the **WD, IS & DA** course selections to complete a certificate in **Web Development, Information Security & Data Analytics**.
- **If your plan is to transfer, choose the Custom Track** and include CMP 129, Computer Science II and MAT 118 Calculus for Business Economics, as two of your Technical Track Electives.
- Please consult the Information Technologies Department Chairperson for more information.

Web Development

Web Design II ^{WD}	CMP 244	3
Adv Web Programming	CMP 249	3
Web Development Workflow ^{WD}	CMP 263	4

Digital Forensics

Digital Forensics I	CMP 160	3
Investigative Function	CJS 215	3
Choose any technical track elective		3

Custom Track

Choose three courses from any of the Technical Tracks. 9

Security

Network Security ^{IS}	CMP 124	3
Information Security Management ^{IS}	CMP 125	3
Ethical Hacking & System Defense ^{IS}	CMP 243	3

Data Science

Intro to Data Science ^{DA}	MAT 114	3
Data Science Programming ^{DA}	CMP 262	3
Computer Science II	CMP 129	3

HONORS COURSES: You may be eligible to take honors courses. Discuss this option with your Academic Advisor.