

COMPUTER SCIENCE

NAME	I.D.#	Expected Grad Date	B.S. Degree
General Education Requirements		Networking and Data Communications Concentration	
<u>3</u>	THEO 110 Intro to Christianity	<u>2</u>	COMP 125 Cloud Foundations
<u>3</u>	BLIT 210 Christian Scriptures	<u>2</u>	COMP 141 End User Systems I: Computer Hrdwr
<u>3</u>	CMIN 310 Christian Living	<u>2</u>	COMP 142 End User Systems II: Software
<u>3</u>	Approved Stewardship Course* _____	<u>3</u>	COMP 230 ServerOps
<u>3</u>	ENGL 109 College Writing I	<u>3</u>	COMP 238 Packet Switching & Routing
<u>3</u>	ENGL 210 College Writing II	<u>3</u>	COMP 260 Shell Programming
<u>3</u>	COMM 105 Fundamentals of Communication	<u>3</u>	COMP 332 Linux System Administration
<u>3</u>	HIST 200 Western Civilization	<u>3</u>	COMP 333 Windows Server Management
<u>3</u>	Approved Social Science Course* _____	<u>3</u>	COMP 338 Wireless Technologies & RF
<u>6</u>	Approved Humanities Courses* _____	<u>3</u>	COMP 345 Cloud Architecture
	Select 3 hours from <u>two</u> different areas:	<u>3</u>	COMP 348 Packet Analysis & Inspection
	Fine Arts, Literature, Philosophy,	<u>3</u>	COMP 360 Cryptography & Blockchain
	Modern Languages _____	<u>3</u>	COMP 420 Risk Mgmt & Bsns Continuity Planning
<u>3-8</u>	Elementary Foreign Language I and II OR Approved International Culture course*	Recommended Supporting Courses:	
	_____	<u>2</u>	COMP 493 Software Research & Dev. Project
<u>3</u>	MATH 103, MATH 112 or higher math	<u>1-3</u>	COMP 494 Internship
<u>6-7</u>	Choose one Physical Science and one Biological Science – one must include a lab*	<u>3</u>	ENGL 311 Business Comm/Tech Writing
	Biological _____	<u>1</u>	FACS 312 Professional Image & Dress
	Physical _____	Software Development Concentration	
		<u>2</u>	COMP 125 Cloud Foundations
		<u>3</u>	COMP 250 Programming: Data Structures
		<u>3</u>	COMP 340 Human Computer Interface
		<u>3</u>	COMP 350 Programming: Object Oriented
		<u>3</u>	COMP 360 Cryptography & Blockchain
		<u>4</u>	COMP 381 Systems Programming
		<u>3</u>	COMP 445 Big Data
		<u>3</u>	COMP 475 Theory of Computation
		Choose 2 courses from:	
		<u>3</u>	COMP 322 Mobile Application Development
		<u>3</u>	COMP 325 Cloud Development
		<u>3</u>	COMP 330 Web Development
		<u>3</u>	COMP 347 Machine Learning/Artificial Intelligence
		Required Supporting Courses:	
		<u>3-4</u>	MATH 137 Applied Calculus OR
			MATH 147 Calculus I
		<u>3</u>	MATH 311 Discrete Mathematics
		Recommended Supporting:	
		<u>2</u>	COMP 493 Software Research & Dev. Project
		<u>1-3</u>	COMP 494 Internship
		<u>3</u>	ENGL 311 Business Comm. & Tech. Writing
		<u>1</u>	FACS 312 Professional Image & Dress
		<u>4</u>	MATH 241 Statistics

*See olivet.edu/registrar for approved list of courses

Major: 50-60 hours – 2.000 GPA required in Major

COMP Core:

<u>2</u>	COMP 120 Introduction to Programming
<u>3</u>	COMP 150 Programming: Control Structures
<u>3</u>	COMP 227 System Administration
<u>3</u>	COMP 237 Network Technologies
<u>2</u>	COMP 246 Database Programming
<u>2</u>	COMP 247 Database Design & Administration
<u>3</u>	COMP 334 Digital Law & Ethics
<u>3</u>	COMP 337 Digital Systems Security
<u>3</u>	COMP 355 Agile Methodologies

Plus Completion of One Concentration:

All required Computer Science courses and all required supporting courses must be completed with a grade of C or better.

****See reverse for additional requirements**

Software Entrepreneurship Concentration

- 2 COMP 125 Cloud Foundations
- 3 COMP 250 Programming: Data Structures
- 3 COMP 340 Human Computer Interface
- 3 COMP 350 Programming: Object Oriented
- 3 COMP 360 Cryptography & Blockchain
- 4 COMP 381 Systems Programming
- 2 COMP 493 Software Research & Dev. Project

Choose 2 courses from:

- 3 COMP 322 Mobile Application Development
- 3 COMP 325 Cloud Development
- 3 COMP 330 Web Development
- 3 COMP 347 Machine Learning/Artificial Intelligence
- 3 COMP 445 Big Data
- 3 COMP 475 Theory of Computation

Required Supporting Courses:

- 4 ACCT 110 Financial Accounting
- 3 BSNS 160 Principles of Management
- 3 BSNS 253 Principles of Marketing
- 3-4 MATH 117 Finite Math **OR**
MATH 137 Applied Calculus **OR**
MATH 147 Calculus I

Recommended supporting to earn Business minor:

- 3 BSNS 171 Business Computer Apps/Comm.
- 3 BSNS 302 Personal Finance/Stewardship **or**
BSNS 355 Intermediate Finance
- 3 BSNS 450 Entrepreneurship
- 3 ECON 110 Principles of Economics

Recommended Supporting Courses:

- 1-3 COMP 494 Internship
- 3 ENGL 311 Business Comm & Tech Writing
- 1 FACS 312 Professional Image & Dress
- 4 MATH 241 Statistics