

BSU in Computer Science: Sample 4-Year Plan (Joined Fall 2021)

Freshman Year

First semester	Credit	Second Semester	Credit
COSC 112 Computer Science I	4	COSC 113 Computer Science II	4
MATH 225 Calculus I	4	MATH 226 Calculus II	4
ENGL 101 Expository Writing	3	ENGL 102 Argument and Research	3
FRSE 101 Freshman Seminar	3	HIST 114 or 115 African American History	3
		COMM 101 Oral Communication	3
<i>Total:</i>	14	<i>Total:</i>	17

Sophomore Year

First semester	Credit	Second Semester	Credit
COSC 208 Discrete Structures	3	COSC 354 Computer Architecture	3
COSC 214 Data Structures and Algorithms	4	MATH 228 Linear Algebra	3
COSC 254 Computer Organization	4	BIOL 102 Introductory Biology (Life Science)	4
MATH 155 Probability and Statistics	3	Arts and Humanities Gen Ed Elective	3
Social /Behavioral Science Gen Ed Elective	3	Health and Wellness Elective	3
<i>Total:</i>	17	<i>Total:</i>	16

Junior Year

First semester	Credit	Second Semester	Credit
COSC 330 Systems Programming 1	3	COSC 414 Operating Systems	3
COSC 350 Programming Languages	3	COSC 428 Design and Analysis of Algorithms	3
CHEM 107 General Chemistry 1 (Physical Science)	4	COSC 430 Systems Programming II	3
Free Elective	4	ENGL 362 Technical Writing for Computer Science	3
		COSC Computer Science Elective ¹	3
<i>Total:</i>	14	<i>Total:</i>	15

Senior Year

First semester	Credit	Second Semester	Credit
COSC 465 Software Engineering	3	COSC 370 Computer Ethics, Social, and Legal Issues	3
COSC 495 Senior Seminar	3	COSC 480 Senior Capstone	3
COSC Computer Elective ²	3	COSC Computer Science Elective ³	3
Free Elective	3	Elective	3
Free Elective ⁴	3		
<i>Total:</i>	15	<i>Total:</i>	15

¹ Cybersecurity Focus students take COSC 435 -Foundations of Computer and Network Security

² Cybersecurity Focus students take COSC 402 -Software and Operating System Security

³ Cybersecurity Focus students take COSC 446 -Incident Response and Digital Forensics

⁴ Cybersecurity Focus students take a Cybersecurity elective

Core Requirements for those starting Fall 2021

Major Plan:

Computer Science

Gen elec

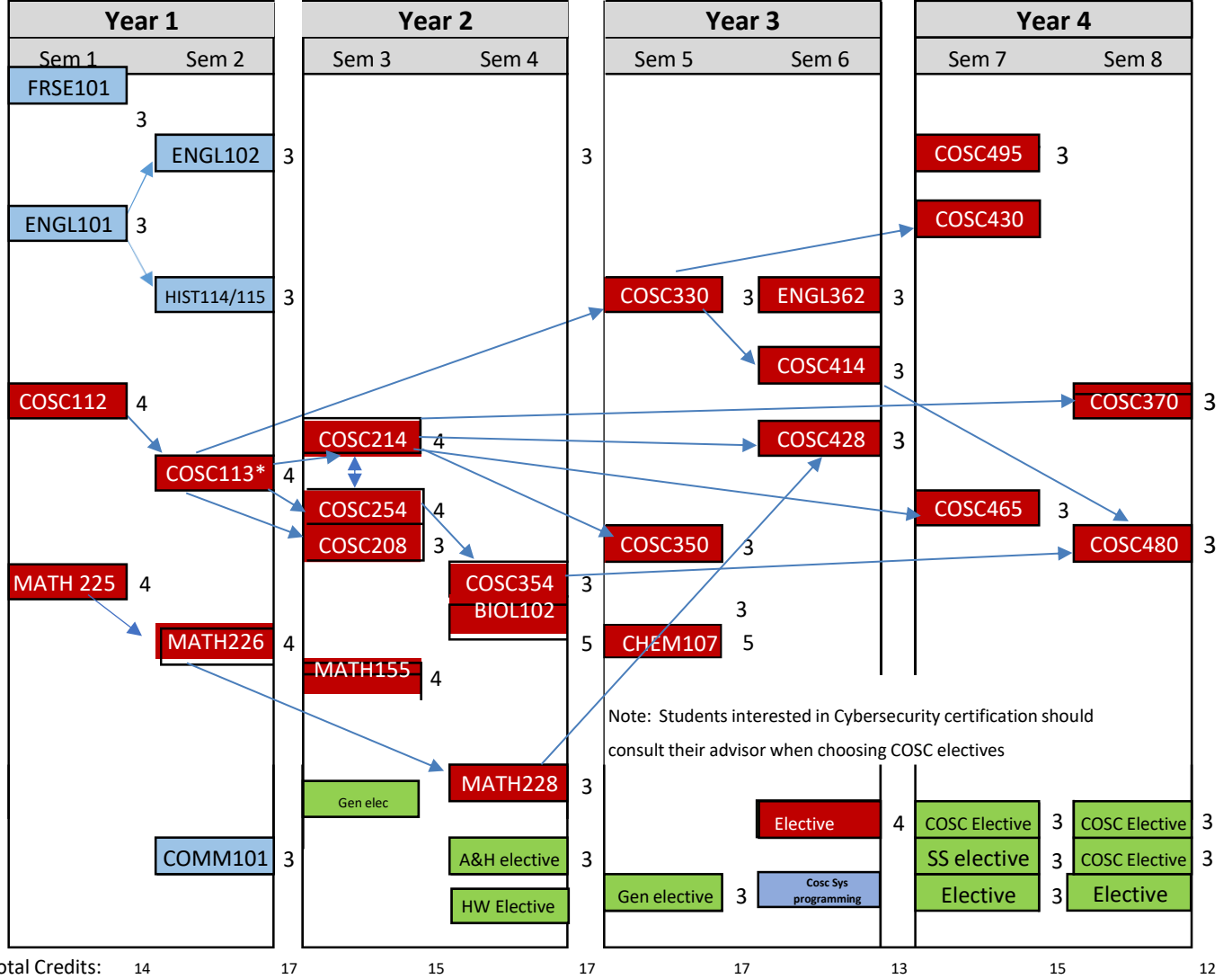
Gen Req't

Core Req't

Recommended Sequence of Course Selection by Year

Note: Advising for Computer Science majors is done by faculty in the Computer Science Department

Pre-College Requirements



Brief Course Descriptions

COMM101	Oral Communication
ENGL101	Expository Writing
ENGL102	Argument and Research
ENGL362	Technical Writ for Comp Sc
FRSE101	Freshmen Seminar
HIST114	African Ameri Hist to 1865
HIST115	African Ameri Hist Since 1865

MATH155	Intro Probability & Stat
MATH225	Calculus I
MATH226	Calculus II
MATH228	Linear Algebra
COSC112	Computer Science I
COSC113	Computer Science II
COSC208	Discrete Structures
COSC214	Data Structures and Algorithms
COSC254	Computer Organization

COSC330	Systems programming I
COSC350	Programming Languages
COSC354	Computer Architecture
COSC370	Comp Ethics, Soc & Leg Issues
COSC374	Object-Oriented Design
COSC414	Operating Systems
COSC428	Design & Analysis of Algo
COSC430	Systems Programming II
COSC480	Senior Capstone
COSC495	Senior Seminar