

STUDENT ADVISING PACKET

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BSU in Computer Science: Sample 4-Year Plan (Prior to Spring 2022)

Freshman Year

First semester	Credit	Second Semester	Credit
COSC 112 Computer Science I	4	COSC 113 Computer Science II	4
MATH 225 Calculus 1	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

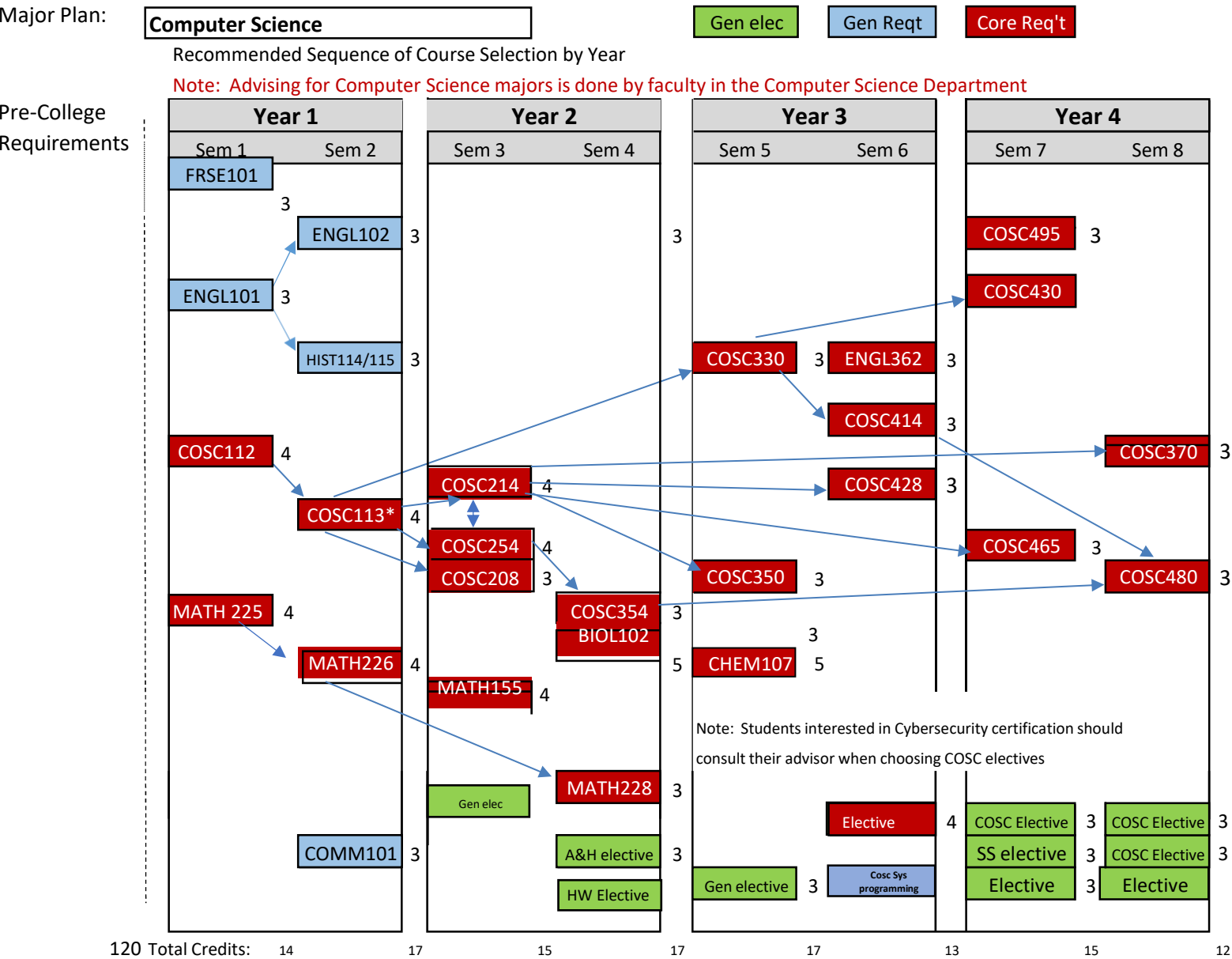
Junior Year

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

Sequence Diagram for program Requirements-Prior to Spring 2022



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

BSU in Computer Science: Sample 4-Year Plan (Starting Spring 2022)

Freshman Year

First semester	Credit	Second Semester	Credit
COSC 112 Computer Science I	4	COSC 113 Computer Science II	4
MATH 225 Calculus 1	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 284 Computer Architecture and Organization	3
COSC 214 Data Structures and Algorithms	4	MATH 228 Linear Algebra	3
COSC 245 Cybersecurity Fundamentals	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

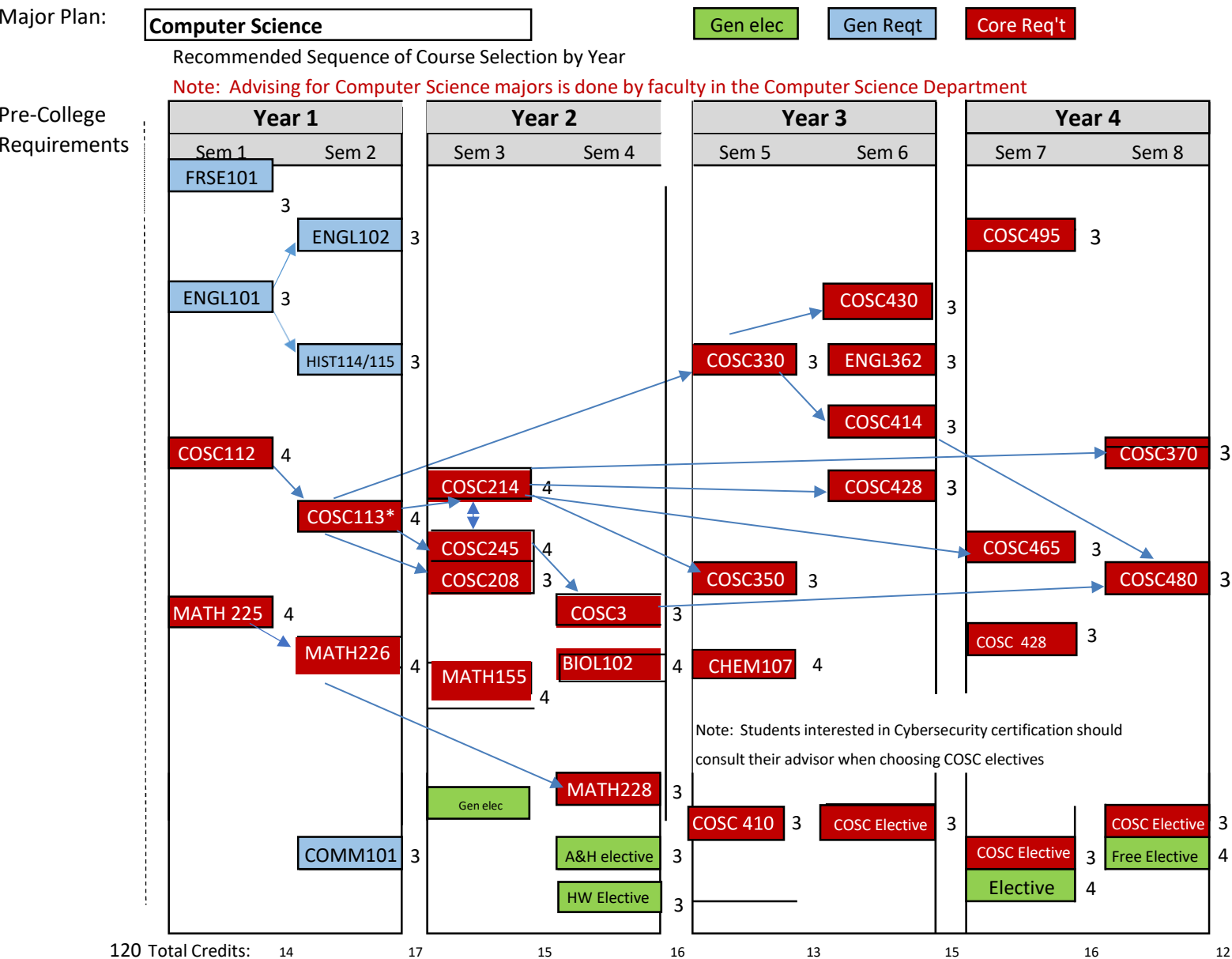
Junior Year

First semester	Credit	Second Semester	Credit
COSC 330 Systems Programming 1	3	COSC 414 Operating Systems	3
COSC 350 Programing Languages	3	COSC 430 Systems Programing II	3
CHEM 107 General Chemistry 1 (Physical Science)	4	COSC 431 - Database Management	3
COSC 410 - Data Communications and Networks	3	ENGL 362 Technical Writing for Computer Science	3
		COSC Computer Science Elective	3
<i>Total:</i>	13	<i>Total:</i>	15

Senior Year

First semester	Credit	Second Semester	Credit
COSC 428 - Design and Analysis of Algorithms	3	COSC 370 Computer Ethics, Social, and Legal Issues	3
COSC 465 Software Engineering	3	COSC 480 Senior Capstone	3
COSC 495 Senior Seminar	3	COSC Computer Science Elective	3
COSC Computer Elective	3	Elective	4
Elective	3		
<i>Total:</i>	15	<i>Total:</i>	13

Core Requirements-Starting Spring 2022



Incoming students should test pass this course; if not, they are required to take it (no credit towards degree)

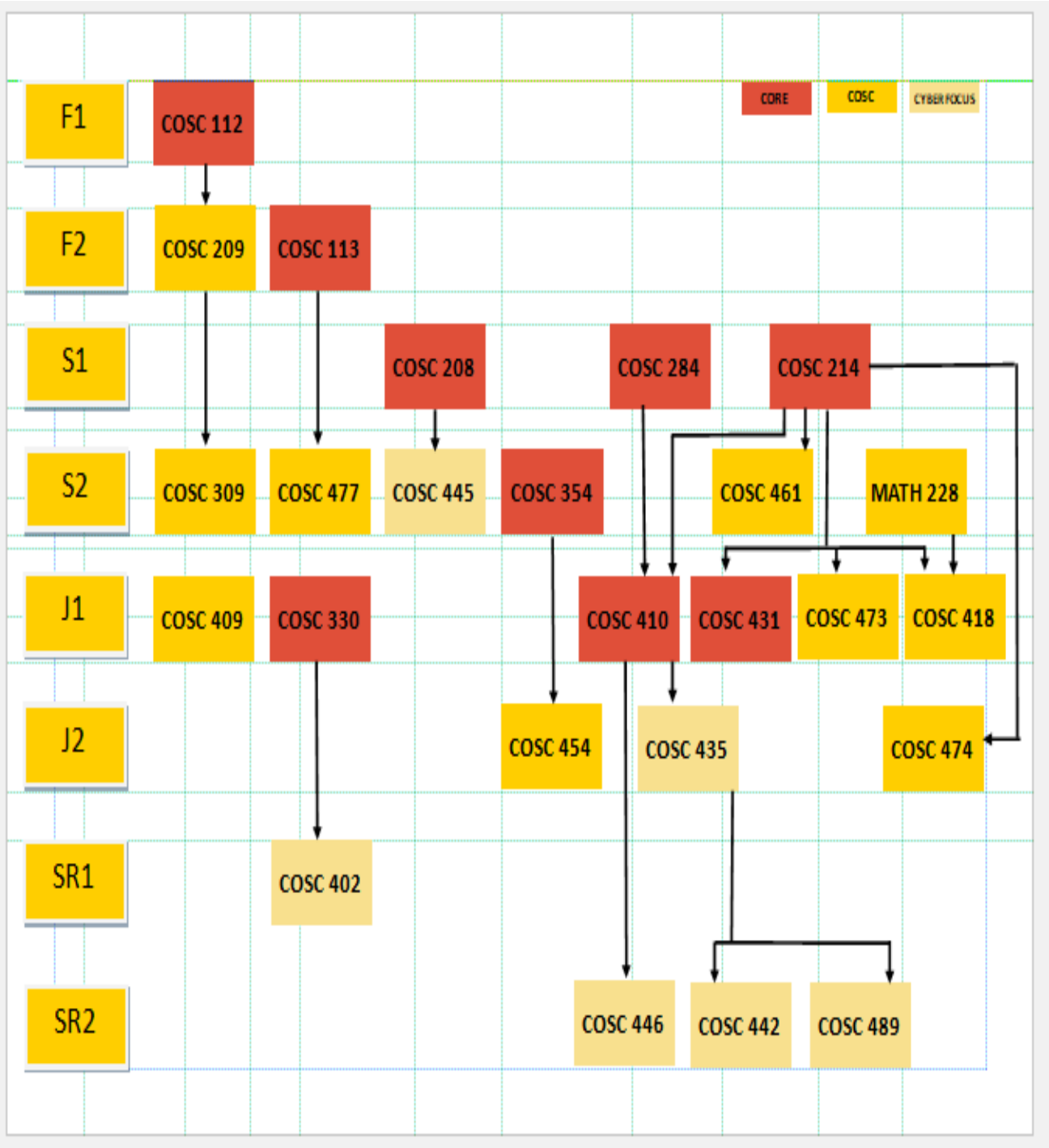
Students may need this course as a pre-requisite for Math225

*COSC190 may be used in place of COSC112 and COSC113 by transfer credit or consent of instructor; prior programming background is required

Brief Course Descriptions

COMM101	Oral Communication	MATH155	Intro Probability & Stat	COSC330	Systems programming I
ENGL101	Expository Writing	MATH225	Calculus I	COSC350	Programming Languages
ENGL102	Argument and Research	MATH226	Calculus II	COSC284	COSC Architecture/Org.
ENGL362	Technical Writ for Comp Sc	MATH228	Linear Algebra	COSC370	Comp Ethics, Soc & Leg Issues
FRSE101	Freshmen Seminar	COSC112	Computer Science I	COSC374	Object-Oriented Design
HIST114	African Ameri Hist to 1865	COSC113	Computer Science II	COSC414	Operating Systems
HIST115	African Ameri Hist Since 1865	COSC208	Discrete Structures	COSC428	Design & Analysis of Algo
BIOL 102	Introductory Biology	COSC214	Data Structures and Algorithms	COSC430	Systems Programming II
		COSC245	Cybersecurity Fundamentals	COSC480	Senior Capstone
				COSC495	Senior Seminar

Computer Science Elective Sequence



MATH Sequence for Computer Science

MATH SEQUENCE FOR COMPUTER SCIENCE

