

Cleveland State University
College of Arts and Sciences and Washkewicz College of Engineering
Bachelor of Science in Mathematics/Statistics + Computer Science
Fall 2024

Degree Map for students immediately eligible for College Writing I, Calculus I

First Year							
	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
ESC 100 or ASC101 Introduction to University Life	1		INTRO	ESC 102 Technical Writing or ENG 102 College Writing II	3		W/C
ENG 101 College Writing I	3		W/C	CIS 260 Introduction to Programming	4	X	
MTH 181 Calculus I	4	X	M/QL	MTH 182 Calculus II	4	X	M/QL
CIS 151 Invitation to Computing	3	X		Natural Science Elective & Lab	4		NS/Lab
General Education Elective	3		DIV-AAEE				
<i>Semester Total</i>	<i>14</i>			<i>Semester Total</i>	<i>15</i>		

Second Year							
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
STA 323 Statistical Methods	3	X		STA 347 Applied Statistics	3	X	M/QL
CIS 265 Data Structures & Algorithms	4	X		PHL 216 Data Ethics	3	X	A&H & WAC
MTH 281 Multivariable Calculus	4	X		CIS 335 Language Processors	3	X	
Natural Science Elective	3		NS	MTH 220 Introduction to Discrete Mathematics	3	X	
MTH 286 Introduction to Differential Equations	3	X		MTH 288 Linear Algebra	3	X	
<i>Semester Total</i>	<i>17</i>			<i>Semester Total</i>	<i>15</i>		

Third Year							
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
CIS 340 Systems Programming	3	X		MTH 432 Probabilistic Models	3	X	
CIS 390 Introduction to Algorithms	3	X		General Education Elective	3		SS
STA 467 Applied Regression Models	3	X		General Education Elective	3		A&H
General Education Elective	3	X	US DIV	Computer Science Major Elective	3	X	
General Education Elective	3		SS	MTH/STA 300/400 elective	3	X	
<i>Semester Total</i>	<i>15</i>			<i>Semester Total</i>	<i>15</i>		

Fourth Year							
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
MTH 396 Junior Seminar	2	X	CAP	MTH 496 Senior Project	3	X	CAP
MTH/STA 300/400 elective	3	X		MTH/STA 300/400 elective	3	X	
Computer Science Major Elective	3	X		Computer Science Major Elective	3	X	
Elective (recommended Math, Stat, or CIS)	3			Elective (recommended Math, Stat, or CIS)	3		
Elective (recommended Math, Stat, or CIS)	3			Elective (recommended Math, Stat, or CIS)	3		
<i>Semester Total</i>	<i>14</i>			<i>Semester Total</i>	<i>15</i>		

Degree Total (as listed in above sample): 120 hours - minimum required to earn degree

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

College/ Program Notes:

The plan above is a suggested guide to ensure that all General Education, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of Gen Ed courses, although the M/QL and W/C requirements should be completed during the first year of study.

*General Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 120 total credit hours**. Depending upon elective choices made, students may not need as many electives as indicated above, or may need additional electives.

^300/400 MTH/STA and CIS offerings are on annual rotations and consultation with an advisor is highly recommended to plan them accordingly,

University Notes:

Gen Ed Key:	
INTRO = Introduction to University Life (one course)	SS = Social Sciences (two courses from different departments**)
W/C = Writing/Composition (two courses; C or better required)	A&H = Arts & Humanities (two courses from different departments**)
M/QL = Mathematics/Quantitative Literacy (two courses)	DIV = Social Diversity (two courses; one US Diversity and one African American Experience)
NS = Natural Sciences (two courses, one of which must have a lab)	WAC/SPAC = Writing/Speaking Across the Curriculum (3 courses, one in the major; C or better required)
	CAP = Capstone
	** of the four total SS and A&H courses, one must be focused on Africa, Latin America, Asia, or the Middle East (ALAAME)

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