

Jumpstart Pathway

Civil Engineering Transfer to Carroll College

Associate of Science

Academic & Career Pathway: Science, Technology, Engineering and Math

Student:

Advisor:

Course/Semester (Prefix, Number and Title)	Credits	Fall/Spring Only	Milestone Course	Notes	Completed
Semester 1					
M 171 - Calculus I	4			Students not prepared for M 171 their first semester should consider taking M 151 the summer prior. See note about math.	
CHMY 121 – Introduction to General Chemistry	4		*	CH 111. Carroll required course	
WRIT 101 – College Writing I	3				
BIOB 160 – Principles of Living Systems	4	Fall		Need to make sure Carroll will take this for their BI123/132.	
Total	15				
Semester 2					
M 172 – Calculus II	4	Spring			
PHSX 220 – Physics I (w/ Calculus)	4	Spring	*	PHYS 205. Carroll required course	
WRIT 201 – College Writing II	3			If a student takes additional math requirements to prepare for M 171 in semester 1 (M121, M151) students may not need to take this course. Check total credits earned towards degree to make sure that student earns required 60 credits needed. See note about math. This is a good course option for students on this pathway.	
COMX 111 – Introduction to Public Speaking or COMX 115 Intro to Interpersonal Communications	3			Either course will meet Carroll's CO 101 requirement for Oral Communications. Both courses offered every fall, spring, and summer semester.	
BGEN 220 – Business Ethics and Social Responsibility or PHL 110 – Introduction to Ethics	3		*	H&FA. Need instructor approval for BGEN 220. BGEN 220 is PHIL 207 at Carroll, which is required for this degree.	
Total	17				
Semester 3					
M 273 – Multivariable Calculus	4	Fall	*	Carroll required course	
PHSX 222 – Physics II (w/ Calculus)	4	Fall	*	PHYS 206. Carroll required course	

HSTA 101 American History I, HSTA 102 American History II, or HSTA 255 Montana History	3			S&PS/H. All three meet Carroll course requirements. Can be taken any semester.
PSYX 100 – Introduction to Psychology	3			S&PS/H. Can be taken any semester.
Total	14			
Semester 4				
M 274 – Differential Equations	4	Spring		
ENSC 105 Environmental Science	3			If a student takes additional math requirements to prepare for M 171 in semester 1 (M121, M151) students may not need to take this course. Check total credits earned towards degree to make sure that student earns required 60 credits needed. See note about math. This is a good course option for students on this pathway.
LIT 110 Intro to Literature	3			H&FA course. Any LIT course will meet this requirement. All LIT courses transfer into Carroll as ENLT 215 Intro to Literature
NASX 105 – Introduction to Native American Studies	3			D & CHAI. Course offered every fall, spring, and summer semester.
SOCI 101 – Introduction to Sociology	3			Can be taken any semester.
Total	16			

****Students must earn a C- or better in order to successfully complete a course.***

Civil Engineering B.S. degree requirements <http://carroll.smartcatalogiq.com/2020-2021/Academic-Catalog/Majors-Minors-and-Certificate-Programs/Engineering/Civil-Engineering-B-S>

Helena College to Carroll College course transfer guide <https://www.carroll.edu/transferable-coursework/helena-college-university-montana>

Carroll College core curriculum <http://carroll.smartcatalogiq.com/en/2020-2021/Academic-Catalog/Degree-Requirements/Core-Curriculum>

62 credits to degree as shown.

Math note: If students take M 121 College algebra and M 151 Precalculus to prepare for M 171 Calculus I, they can drop WRIT 201 and ENSC 105 in semesters 2 and 4. If they take only M 151 to prepare for M 171, they can drop one of the courses. Check total credits to degree to ensure students are earning 60 credits needed for AS degree.

Students that complete the Helena College General Education Core will earn a Certificate of General Studies.

Certificate of General Studies		
Category	Credits	Complete
Natural Science with Lab		
Natural Science		
Mathematics		
Written Communication		
Oral Communication		
Social & Psychological Sciences/History		
Social & Psychological Sciences/History		
Humanities/Fine Arts		
Humanities/Fine Arts		
Cultural Diversity		
Total Credits (30-32)		