

MATHEMATICS

Bachelor of Science Degree in DDEP-Mathematics

Credits: 122
CIP Code: 270101

Code	Title	Hours
Required Courses		
Select 48 credits ¹		48
Total Hours		48

¹ Includes transfer credits from partner institution. Please refer to Mathematics catalog entry for listing of major courses required.

General Education Courses

Code	Title	Hours
Area A: Humanities/Fine Arts		
CHIS 211	History of the United States	3
CHIS 212	History of the United States	3
Area B: Social/Behavioral Sciences		
CPSY 211	General Psychology	3
Select one of the following:		3
CSCJ 201	Intro. to Criminal Justice	
CSCJ 310	Criminology	
CPSC 322	International Relations	
Area C: Natural Sciences/Mathematics/Statistics		
CPHY 121	Physics I: Mechanics	3
CPHY 122	Physics II: Elec & Magnetism	3
Area D: Communications		
CENG 105	College Composition I	3
CENG 106	College Composition II	3
CENG 201	Intro to World Literature I	3
or CENG 202	Intro to World Literature II	
Area E: Financial/Technological		
CCIS 105	Programming Principles I	3
CECO 107	Introduction to Economics	3
Total Hours		33

Math Electives: 12 Credits

Please refer to Mathematics catalog entry for list of electives.

Other University Requirements

Code	Title	Hours
CGED 100	First Year Seminar	1
CGED 101	1st-Year Seminar	1
Total Hours		2

Free Electives: 24 Credits (includes transfer credits from partner institution)

Note: Free Electives should be chosen in consultation with the advisor, depending on the choice of minor or stackable credentials.

Dual Degree Engineering Program Plan of Study for Bachelor of Science Degree in DDEP-Mathematics

Course	Title	Hours
First Year		
First Semester		
CEGR 101 & 101L	Introduction to Engineering and Intro to Engineering Lab	3
CMAT 111	Calculus I	4
CENG 105	College Composition I (Area D)	3
CGED 100	First Year Seminar	1
CHIS 211	History of the United States	3
CPHI 105	Critical Thinking (Area A)	3
Hours		17
Second Semester		
CENG 106	College Composition II (Area D)	3
CMAT 112	Calculus II	4
CPHY 121	Physics I: Mechanics	3
CPHY 121L	Physics I: Mechanics Lab	1
CGED 100	First Year Seminar	1
CEGR 110 & 110L	Engineering Graphics and Engineering Graphics Lab	3
CHIS 212	History of the United States	3
Hours		18
Second Year		
First Semester		
Select one of the following:		3
CBUS 101		
CBUS 209	Acctg for Non-Business Students	
CBUS 341	Business Finance	
CMAT 211	Calculus III	4
CPHY 122	Physics II: Elec & Magnetism	4
CCIS 105 & 105L	Programming Principles I and Programming Principles I Lab	4
CENG 201 or CENG 202	Intro to World Literature I or Intro to World Literature II	3
Hours		18
Second Semester		
CCHE 111	Gen Chem 1 & Recitation	4
CMAT 212	Differential Equations	3
CMAT 214	Linear Algebra	3
CCIS 106 & 106L	Programming Principles II and Programming Principles II Lab	4
CPSY 211	General Psychology	3
Hours		17
Third Year		
First Semester		
CEGR 211	Engineering Statics	3
CMAT 311	Mathematical Logic	3
CMAT 321	Mathematical Prob & Stat I	3
CMAT 325	Modern Algebra	3
Select one of the following:		3

CSCJ 201	Intro. to Criminal Justice	
CSCJ 310	Criminology	
CPSC 322	International Relations	
Hours		15

Second Semester

CMAT 322	Mathematical Prob & Stat II	3
CMAT 326	Modern Algebra II	3
CMAT 421	Advanced Calculus I	3
CECO 107	Introduction to Economics	3
Elective		3
Hours		15

Fourth Year**First Semester****Courses to be Completed at Partner Institution 4th & 5th Year**

Additional hours needed to satisfy degree requirements can be taken (or transfer equivalent) at and transferred from partner institution beyond Junior Year

Engineering Course		3
Engineering Course		3
Engineering Course		3
CMAT 422	Advanced Calculus II (or transfer equivalent)	3
CMAT 423	Intro to Complex Variables I (or transfer equivalent)	3
Hours		15

Second Semester

Engineering Course		3
Engineering Course		3
Engineering Course		3
CMAT 427	Intro to Toplogy I (or transfer equivalent)	3
CMAT 424	Intro to Complex Variables II (or transfer equivalent)	3
Hours		15

Fifth Year**First Semester**

Engineering Course		3
Engineering Course		3
Engineering Course		3
CMAT 443	Intro to Operations Research (or transfer equivalent)	3
CMAT 475	Seminar I (or transfer equivalent)	3
Hours		15

Second Semester

Engineering Course		3
Engineering Course		3
Engineering Course		3
Engineering Course		3
Engineering Course		3
Hours		15
Total Hours		160