

**Computational
Mathematics (2 C.U.)**

**ENM 5020 (1 C.U.)
and 1 C.U. of the following:**

AMCS 6025	ENM 5220
AMCS 5681	CIS 5150
AMCS 5840	

**Machine Learning and
Data Science (3 C.U.)**

**CIS 5450 (1 C.U.)
and 2 C.U. of the following:**

CIS 5190	ESE 5450
CIS 5200	ESE 5460
STAT 5710	CIS 5220
MSE 5760	CIS 6250
ENM 5310	ESE 6500

**Methods and
Simulations (2 C.U.)**

2 C.U. of the following:

BE 5160	CIS 5800
BE 5300	CIS 5810
BE 5370	ESE 5030
CBE 5250	ESE 5060
CBE 5440	ESE 6050
CIS 5350	MEAM 5270
CIS 5360	MEAM 6460
CIS 5610	MSE 5610
CIS 5620	SCMP 5590

**Applications in Natural
Science (2 C.U.)**

**Independent Study or Master's
Thesis (2 C.U.)
or 2 C.U. of the following:**

BE 5210	MEAM 5080
BE 5690	MEAM 5200
BE 5830	MEAM 5380
BIOL 5210	MEAM 5430
BIOL 5535	MEAM 5450
BMIN 5210	MEAM 5700
CBE 5170	MEAM 5800
CBE 5540	MEAM 6200
CIS 5650	MEAM 6420
CIS 5600	MSE 5050
CIS 6800	MSE 5360
ESE 5230	MSE 5750
MEAM 5040	MSE 6100
MEAM 5060	PHYS 5517
MEAM 5070	

Free Elective (1 C.U.)
Any technical course,
subject to advisor approval

***This is not an exhaustive list of courses**