

# Space Sciences and Engineering

## Sample Schedule

	Total	Term:		
	Credit Hours	1	2	3
<b>Subjects Required by all Programs (55 hours)</b>				
Mathematics 115, 116, 215, and 216	16	4	4	4
Engineering 100, Introduction to Engineering	4	4	-	-
Engineering 101, Introduction to Computers	4	-	4	-
Chemistry 125/126 and 130 or Chemistry 210 and 211 <sup>1</sup>	5	5	-	-
Physics 140 with Lab 141; Physics 240 with Lab 241 <sup>2</sup>	10	-	5	5
Intellectual Breadth	16	4	4	4
<b>Required Core Subjects (53 hours)</b>				
SPACE 320, Earth and Space System Evolution	3	-	-	3
SPACE 321, Earth and Space System Dynamics	3	-	-	-
SPACE 323, Earth System Analysis	4	-	-	-
PHYSICS 340, Waves, Heat and Light	3	-	-	-
SPACE 370, Solar-Terrestrial Relations	4	-	-	-
SPACE 380, Introduction to Radiative Transfer	3	-	-	-
PHYSICS 405, Intermediate Electricity and Magnetism	4	-	-	-
PHYSICS 390, Modern Physics	3	-	-	-
SPACE 462, Instrumentation for Atmos & Space Sciences	4	-	-	-
NERS 471, Introduction to Plasmas	3	-	-	-
SPACE 478, Space Environment	4	-	-	-
SPACE 405, Data Analysis and Visualization <sup>3</sup>	4	-	-	-
SPACE 477, Space Weather Modeling	4	-	-	-
SPACE 495/595 <sup>4</sup>	4	-	-	-
SPACE 499 <sup>5</sup>	3	-	-	-
Technical Electives (10 hours)	10	-	-	-
General Electives (10 Hours)	10	-	-	-
<b>Total</b>	<b>128</b>	<b>17</b>	<b>17</b>	<b>16</b>

*Revised: April-17*

Candidates for the Bachelor of Science in Engineering in Space Sciences and Engineering must complete the schedule is an example of one leading to graduation in eight terms.

Notes:

<sup>1</sup>If you have a satisfactory score or grade in Chemistry AP, A-Level, IB Exams or transfer credit from another 130/125/126 you will have met the Chemistry Core Requirement for the College of Engineering.

<sup>2</sup>If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams or transfer credit from another in 240/241 you will have met the Physics Core Requirement for the College of Engineering.

<sup>3</sup>New Course.

<sup>4</sup>Students should take one of these courses (each offered every other year).

<sup>5</sup>New Course. Student may take either year-long (2 hours each term) SPACE 499, Directed Study as a Senior

4	5	6	7	8
4	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
4	-	-	-	-
-	-	-	-	-
3	-	-	-	-
4	-	-	-	-
-	3	-	-	-
-	4	-	-	-
-	3	-	-	-
-	-	4	-	-
-	-	3	-	-
-	-	4	-	-
-	-	-	3	-
-	-	-	3	-
-	-	-	-	4
-	-	-	-	4
-	-	-	-	4
-	-	-	3	-
-	2	-	4	4
-	3	4	3	-
<b>15</b>	<b>15</b>	<b>15</b>	<b>16</b>	<b>16</b>

program listed above. This sample

institution for Chemistry

institution for Physics 140/141 and

Thesis option, or SPACE 455 Senior Cap