

**ASSOCIATE IN APPLIED SCIENCE DEGREE:  
ENGINEERING TECHNOLOGY  
(Suggested Occupational Plan)**

	Lec.	Lab	Sem. Hrs
<b>FIRST SEMESTER</b>			
RBTC 1305	2	4	3
CETT 1303	1	6	3
SCIT 1418	3	3	4
ENGR 1201	2	0	2
<b>ENGL 1301</b>	<b>3</b>	<b>1</b>	<b>3</b>
<b>SECOND SEMESTER</b>			
ENGR 1304	2	4	3
CETT 1305	1	6	3
<b>MATH 1314</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>SPCH 1315</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>THIRD SEMESTER</b>			
CETT 1415	3	4	4
INTC 1357	2	4	3
<b>Humanities/Visual or Performing Arts Elective</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>FOURTH SEMESTER</b>			
ELMT 1301	1	6	3
ELMT 1305	2	3	3
ELMT 2333	2	4	3
<b>Social/Behavioral Sciences Elective</b>	<b>3</b>	<b>0</b>	<b>3</b>
<b>FIFTH SEMESTER</b>			
ELMT 2339	1	6	3
INTC 1341	2	3	3
MCHN 1338	1	8	3
Emphasis Elective	0	0	3
<b>SIXTH SEMESTER</b>			
EECT 1307	1	6	3
Emphasis Elective	0	0	2
Emphasis Elective	0	0	3
QCTC 1303	3	1	3
Total Semester Hours for Associate Degree		<b>72</b>	
<b>Alternative Energy Emphasis Electives</b>			
WIND 1200.	1	4	2
FCEL 1305.	2	4	3
HART 1311.	2	4	3

### **Mechatronics Emphasis Electives**

ELPT 2231. AC/DC Drives.....	1	4	2
INMT 1319. Manufacturing Processes.....	2	4	3
CPMT 2337. Microcomputer Interfacing.....	1	6	3

### **Pre-Engineering Requirements**

Del Mar offers many courses which transfer to Colleges of Engineering in Texas and other states. University requirements vary substantially from one another, with diversity in the different areas represented in a particular College of Engineering. Students should consult an advisor in the Department of Computer Science and Information Technology to develop a degree plan.

Typical courses required in a pre-engineering curriculum would include some, or perhaps all, of the following:

- one year of English (ENGL 1301, 1302),
- three semester hours of sophomore literature or philosophy,
- United States History (HIST 1301, 1302),
- Federal and Texas Government (GOVT 2301, 2302),
- three semester hours of visual or performing arts,
- three semester hours of oral communication (SPCH 1315),
- computer science (ENGR 2304),
- calculus-based physics (PHYS 2425, 2426),
- mechanics (ENGR 2301, 2302),
- introduction to engineering (ENGR 1201),
- engineering graphics (ENGR 1304),
- mathematics (MATH 2318, 2320, 2413, 2414, 2415)
- one year of chemistry (CHEM 1411, 1412).

Majors in specific areas of engineering should be aware of related requirements. For example, in chemical engineering students should take CHEM 2323/2123 and 2325/2125. Petroleum engineering majors should take GEOL 1103, 1303, and 1404. Civil engineering majors should take GEOL 1103 and 1303.

Certain course substitutions are permitted. See advisor for details. Additional requirements for the Associate in Science degree include:

Social/Behavioral Science core, three hours; Kinesiology activity core courses, two hours.

Students planning to complete an associate degree at Del Mar College should work closely with an advisor to avoid accumulating excessive hours. It may be necessary to defer some of the pre-professional courses listed above to a university if an associate degree is desired.