

# Computer Engineering, B.S.

Course	Title	Semester Credit Hours
<b>Freshman Year</b>		
<b>Semester 1</b>		
CHEM 1311 & CHEM 1111	Gen Inorganic Chemistry I and Gen Inorganic Chem Lab I	4
CSEN 2304	Introd to Computer Science	3
ENGL 1301	Rhetoric and Composition	3
MATH 2413	Calculus I	4
GEEN 1201	Engineering as a Career <sup>1</sup>	2
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
EEEN 2340	Digital Logic Design	3
ENGL 1302	Rhetoric and Composition	3
MATH 2414	Calculus II	4
PHYS 2325 & PHYS 2125	University Physics I and University Physics I Lab	4
<b>Semester Credit Hours</b>		<b>14</b>
<b>Sophomore Year</b>		
<b>Semester 1</b>		
EEEN 3449	Microprocessor Systems	4
MATH 3320	Differential Equations	3
PHYS 2326 & PHYS 2126	University Physics II and University Physics II Lab	4
POLS 2301	Government and Politics of US	3
Communications <sup>2</sup>		3
<b>Semester Credit Hours</b>		<b>17</b>
<b>Semester 2</b>		
CSEN 2328	Data Structures & Algorithms	3
EEEN 2323	Network Analysis I	3
MATH 3370	Discrete Mathematics	3
POLS 2302	Government and Politics of TX	3
Lang/Phil/Culture		3
<b>Semester Credit Hours</b>		<b>15</b>
<b>Junior Year</b>		
<b>Semester 1</b>		
EEEN 3321	Network Analysis II	3
EEEN 3325	Electronics I	3
EEEN 3334	Random Signals	3
EEEN 4344	Computr Architectr and Design	3
MATH 3415	Calculus III	4
<b>Semester Credit Hours</b>		<b>16</b>
<b>Semester 2</b>		
CSEN 4362	Operating Systems	3
EEEN 3212	Circuits and Electronics Lab	2
EEEN 4355	Digital Systems Engineering	3
Social/Behavioral <sup>3</sup>		3
Creative arts		3
<b>Semester Credit Hours</b>		<b>14</b>

**Senior Year****Semester 1**

CSEN 4201 or EEEN 4252	Software Eng Project or Advanced Laboratory	2
CSEN 4320	Computer Networks	3
HIST 1301	American History to 1877	3
Approved Elective <sup>6</sup>		3
CSEN Elective <sup>5</sup>		3
<b>Semester Credit Hours</b>		<b>14</b>

**Semester 2**

CSEN 4202 or EEEN 4224	Software Eng Project (WI) or Elec & Comp Eng Proj Lab (WI)	2
HIST 1302	American History since 1877	3
EEEN 4358	Embedded Systems	3
EECS Elective <sup>4</sup>		3
EECS Elective <sup>4</sup>		3
<b>Semester Credit Hours</b>		<b>14</b>
<b>Total Credit Hours Required:</b>		<b>120</b>

All general education elective courses must be chosen from the approved elective list, after discussion with the academic advisor.

- <sup>1</sup> Pre-Engineering Students and Alternate Pre-Engineering students are required to take UNIV 1201 instead of GEEN 1201.
- <sup>2</sup> COMS 2374 or ENGL 2374 is strongly recommended.
- <sup>3</sup> ECON 2301 or ECON 2302 is strongly recommended.
- <sup>4</sup> Approved CSEN or EEEN elective must be chosen to satisfy a professional objective and must be chosen with the consent of the academic advisor or the department chair.
- <sup>5</sup> Approved upper level CSEN elective must be chosen to satisfy a professional objective and must be chosen with the consent of the academic advisor or the department chair.
- <sup>6</sup> CEEN 3317 or Approved CSEN or EEEN elective must be chosen to satisfy a professional objective and must be chosen with the consent of the academic advisor or the department chair.