

# SMU ENGINEERING

## BS Management Science Degree Requirements 2002-03 Catalog BS Mathematics with Computer Science Minor

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 Last First Middle SMU Student ID

\_\_\_\_\_  
 Dallas Address Phone Number Advisor

### General Education Curriculum (GEC): From fall 2002 through summer 2003

Courses	Hours	Semester & Year	Grade
ENGL 1301 – Written English I	3		
ENGL 1302 – Written English II	3		
Perspectives <sup>1</sup> – Arts			
Perspectives <sup>1</sup> – Literature			
Perspectives <sup>1</sup> – Religious & Philosophical Thought			
Perspectives <sup>1</sup> – History			
Perspectives <sup>1</sup> – Politics & Economics			
Perspectives <sup>1</sup> – Behavioral Sciences			
Cultural Formations	3		
Cultural Formations	3		
Human Diversity requirement fulfilled by:	*****		
Wellness I	1		
Wellness II	1		
<b>TOTAL</b>	<b>29</b>		

### MAJOR

Courses	Hours	Semester & Year	Grade
EMIS 2360 – Engineering Economy	3		
EMIS 3150 – Computer Ethics	1		
EMIS 3308 – Engineering Management	3		
EMIS 3309 – Information Engineering & Global Perspectives	3		
EMIS 3360 – Operations Research	3		
EMIS 4340 / STAT 4340 – Statistical Methods for Engineers & Scientists	3		
EMIS 4395 – Senior Design	3		
EMIS 5362 – Production & Operations Management	3		
CSE 1341 – Principles of Computer Science I	3		
CSE 2341 – Principles of Computer Science II	3		
CSE 2353 – Discrete Computational Structures	3		
CSE 4360 – Technical Entrepreneurship	3		
ENCE 3302 – Technical Communications	3		
<b>TOTAL</b>	<b>37</b>		

### MATHEMATICS

Courses	Hours	Semester & Year	Grade
MATH 1337 – Calculus with Analytic Geometry I	3		
MATH 1338 – Calculus with Analytic Geometry II	3		
MATH 2339 – Calculus w/Analytic Geometry III	3		
MATH 2343 – Differential Equations	3		
MATH 3315 / CSE 3365 – Introduction to Scientific Computing	3		
MATH 3353 – Introduction to Linear Algebra	3		
MATH 33XX – Any math class, 3000 level or above	3		
ONE of MATH 5315, or MATH 5316, or MATH 5317	3		
<b>TOTAL</b>	<b>24</b>		

**NATURAL SCIENCE/SOCIAL SCIENCE**

<b>Courses</b>	<b>Hours</b>	<b>Semester &amp; Year</b>	<b>Grade</b>
Natural Science <sup>3</sup>	3		
Natural Science <sup>3</sup>	3		
Social Science – (ECO 1311)	3		
Social Science – (ECO 1312)	3		
Natural Science <sup>3</sup> – Social Science <sup>4</sup>	3		
<b>TOTAL</b>	<b>15</b>		

**BUSINESS**

<b>Courses</b>	<b>Hours</b>	<b>Semester &amp; Year</b>	<b>Grade</b>
ACCT 2311 – Fundamentals of Accounting I	3		
MKTG 3340 – Fundamentals of Marketing	3		
OBBP 3370 – Organization Behavior Theory	3		
<b>TOTAL</b>	<b>9</b>		

**ELECTIVES – Computer Science**

<b>Courses</b>	<b>Hours</b>	<b>Semester &amp; Year</b>	<b>Grade</b>
CSE 3358 – Data Structures	3		
CSE 53xx <sup>5</sup>	3		
CSE 53xx <sup>5</sup>	3		
<b>TOTAL</b>	<b>9</b>		

**Total SCH: \_\_\_\_\_ (Minimum 123)**

**APPROVALS:**

\_\_\_\_\_  
Advisor Date

\_\_\_\_\_  
Dept. Chair or Associate Chair Date

\_\_\_\_\_  
Assistant Dean Date

<sup>1</sup>All students are exempt from 3 hours of Perspectives for a total of 15 hours. One of the selections for Perspectives or Cultural Formations must satisfy the Human Diversity Co-Requirement.

<sup>2</sup>Three SCH from EMIS courses 3000 and above.

<sup>3</sup>To be chosen from BIOL 1401, BIOL 1402, CHEM 1303/1113, CHEM 1304/1114, GEOL 1301, PHYS 1403, PHYS 1404, PHYS 1407, or PHYS 1408.

<sup>4</sup>To be chosen from anthropology, economics, psychology, or sociology.

<sup>5</sup>To be chosen from CSE 3342, CSE 5320, CSE 5330, CSE 5343, or CSE 5350.