

Engineering Science, BA Major in

This program is designed for those students who wish to combine elements of a fundamental engineering program with those of a broad liberal arts program. In addition to meeting the degree requirements for the BA, students are required to earn a cumulative average of C or better in engineering courses. Students pursuing this degree must choose either the Biomedical Engineering Option or the Production and Manufacturing Option.

Program Requirements

Biomedical Engineering Option

The Biomedical Engineering option of this degree has been created for those students whose career goals are directed toward medicine, but with a strong analytical element provided by engineering course work.

Suggested Sequence

BA Major in Engineering Science With a Biomedical Engineering Option

First Year

	First Semester	Second Semester
CHEM <u>3A, 3B, 4A, 4B</u>	4	4
ENGG <u>10, 15, 112</u>	5	3
MATH <u>71, 72</u>	4	4
PHYS <u>11A, 11B</u>	-	5
WSC <u>1</u> (or placement examination) (See footnote f)	3-4	-
TOTAL	16	16

Second Year

	First Semester	Second Semester
BIO <u>11</u>	-	4
ENGG <u>25, 27, 28, 81</u>	6	6
MATH <u>73</u>	4	-

PHYS <u>12A, 12B</u>	5	-
WSC <u>2</u> (or placement examination) (See footnote†)	-	3
Social Science Distribution Elective Credits	-	3
TOTAL	15	16

Third Year

	First Semester	Second Semester
BIO <u>12</u>	4	-
CHEM <u>131A, 131B, 132A, 132B</u>	4	4
ENGG <u>30, 34, 113, 182</u>	3	7
Humanities Distribution Credits	3	3
Language Requirement Credits (See footnote†)	3	3
TOTAL	17	17

Fourth Year

	First Semester	Second Semester
ENGG <u>166B, 183</u>	3	3
Humanities Distribution Credits	3	-
Language Requirement Credits (See footnote†)	3	3
Social Science Distribution, Cross- Cultural Distribution Credits	6	3
Technical Electives Credits	-	6
TOTAL	15	15

Production and Manufacturing Option

The Production and Manufacturing Option of this degree has been created for those students whose career goals are directed toward business administration, especially in manufacturing or production.

Suggested Sequence

BA Major in Engineering Science With a Production and Manufacturing Option

First Year

	First Semester	Second Semester
CHEM <u>3A, 3B</u>	4	-
ENGG <u>10, 15, 112</u>	5	3
MATH <u>71, 72</u>	4	4
PHYS <u>11A, 11B</u>	-	5
WSC <u>1, 2</u> (or placement examination) (See footnote†)	3-4	3
TOTAL	16	15

Second Year

	First Semester	Second Semester
ECO <u>1</u>	-	3
ENGG <u>25, 26, 28, 32A, 32B</u>	3	10
MATH <u>73, 131</u>	4	3
PHYS <u>12A</u>	4	-
Social Science Distribution Elective Credits	3	-
SPCM <u>1</u>	3	-
TOTAL	17	16

Third Year

	First Semester	Second Semester
ACCT <u>101</u>	3	-
ENGG <u>30, 36, 113, 160A</u>	6	4
FIN <u>101</u>	3	-
Language Requirement Credits (See footnote†)	3	3
LEGL <u>20</u>	-	3
Literature Distribution or Literature in Translation Credits (See footnote††)	3	3
MGT <u>101</u>	-	3

TOTAL	18	16
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Fourth Year

	First Semester	Second Semester
ENGG <u>19, 27, 100, 119</u>	6	6
Language Requirement Credits (See footnote†)	3	3
MKT <u>101, 124</u>	3	3
Social Science Distribution, Cross-Cultural Distribution Credits	6	3
TOTAL	18	15

Footnotes († and ††)

†For BA requirements, see below.

††For literature distribution requirements, see Distribution Courses.