BOSTON UNIVERSITY
APPLICATION FOR AN
ENG SCIENCE MINOR

Students interested in earning a minor from the College of Engineering must complete this form and submit it to their primary School/College. Students applying for an ENG minor must be at least a sophomore.

Student Name: _____ Student I.D. #: _____

Local Address: _____ Local Phone #: _____

_____ E-mail: _____

Major: _____ Class year: ☐ Sophomore ☐ Junior ☐ Senior

Proposed Track: ☐ **A - Mechanical** ☐ **B - Electrical**

Only TWO courses may be applied to both the major and the minor degree requirements.
Please indicate with an * any courses that you want to apply towards both your major and minor.

Proposed Courses for Minor	*	Office Use Only
1. CAS MA 226 (4 cr)		
2. ENG EK 127 (4 cr)		
3.		
4.		
5.		
6.		
7.		
8.		

_____ _____
Student Signature Date

_____ _____
Major Faculty Advisor Signature Date

_____ _____
ENG Authorization (Signature) (Print Name) Date

Office Use Only Current GPA: _____ Hegis Code: _____

☐ Approved

_____ _____
☐ Denied Major College Final Verification Date

ENGINEERING SCIENCE MINOR

This minor has been designed for Boston University students who are not enrolled in the College of Engineering, but who want a general introduction to the concepts and applications of engineering. Track A has a mechanical engineering emphasis and Track B has an electrical engineering emphasis. A minimum grade of C is required in all courses fulfilling the minor and a 20-credit residency in the College of Engineering is required. All course substitutions must be approved by the College of Engineering Undergraduate Committee. This minor is available to students in COM, SAR, CFA and SMG. Additional information and specifics regarding prerequisites can be obtained from the College of Engineering Undergraduate Records Office.

Prerequisites

CAS	MA	123	Calculus I	4 cr
CAS	MA	124	Calculus II	4 cr
CAS	PY	211	Physics I	4 cr

Required Courses (24 credits):

CAS	MA	226	Differential Equations	4 cr.
ENG	EK	127	Engineering Computation	4 cr.
Introduction Course *(see below)*				4 cr.
Track A **OR** Track B *(see below)*				12 cr

Introduction Courses: Choose 4 credits from the following list:

ENG	EK	130	Introduction to Engineering	4 cr.
ENG	EK	131	Introduction to Engineering	2 cr.
ENG	EK	132	Introduction to Engineering	2 cr.
ENG	EK	280	Technology and Society	4 cr.
ENG	EK	156	Design and Manufacture	2 cr.
ENG	ME	201	Introduction to Aircraft Performance	2 cr.
ENG	ME	202	Introduction to Spacecraft Performance	2 cr. (Pre-req: ENG EK 301; co-req: CAS MA 226

Either Track A or Track B sequence 12 cr.

Track A sequence (12 cr) - Mechanical

ENG	EK	301	Engineering Mechanics I	4 cr. (Pre-req: CAS PY 211 & ENG EK 127; Co-req: CAS MA 225)
and one of the following 4 credit courses:				
ENG	ME	305	Mechanics of Materials	4 cr. (Pre-req: ENG EK 301)
ENG	ME	306	Material Science	4 cr. (Prereq: CAS PY 212)
ENG	ME	308	Statistics and Quality Engineering	4 cr. (Pre-req: CAS MA 225)
and one of the following 4 credit courses:				
ENG	BE	436	Fundamentals of Fluid Mechanics	4 cr. (Prereq: CAS MA 226 and ENG EK 301)
ENG	EK	424	Thermodynamics and Statistical Mechanics	4 cr. (Prereq: CAS PY 212 and CAS MA 225)
ENG	ME	302	Engineering Mechanics II	4 cr. (Prereq: ENG EK 301)
ENG	ME	303	Fluid Mechanics	4 cr. (Prereq: ENG EK 301)
ENG	ME	304	Thermodynamics	4 cr. (Prereq: ENG EK 301)
ENG	ME	307	Flight Structures	4 cr. (Prereq: ENG ME 305)
ENG	ME	309	Structural Mechanics	4 cr. (Prereq: ENG ME 305)
ENG	ME	411	Operations Research	4 cr. (Prereq: ENG ME 308)
ENG	ME	465	Materials Processing	4 cr. (Prereq: ENG ME 306)

Track B sequence (12 cr) - Electrical

ENG	EK	307	Electric Circuit Theory	4 cr. (Co-req: CAS MAZ 226 & CAS PY 212)
and one of the following 4 credit courses:				
ENG	EC	401	Signals and Systems	4 cr. (Pre-req: CAS MA 226 & ENG EK 307)
ENG	BE	401	Signals & Systems in Biomedical Engineering	4 cr. (Pre-req: ENG BE 200, ENG EK 307, CAS MA 226)
ENG	EC	410	Introduction to Electronics	4 cr. (Pre-req: ENG EK 307)
ENG	EC	311	Introduction to Logic Design	4 cr. (Co-req: ENG EK 307)
and one of the following 4 credit courses:				
ENG	EC	312	Small Computer Systems	4 cr. (Prereq: ENG EC 311)
ENG	EC	402	Control Systems	4 cr. (Prereq: ENG EC 401)
ENG	BE	402	Control Systems in Biomedical Engineering	4 cr. (Prereq: ENG BE 401)
ENG	EC	412	Analog Electronics	4 cr. (Prereq: ENG EC 410)
ENG	EC	415	Communication Systems	4 cr. (Prereq: ENG EC 401)
ENG	EC	416	Introduction to Digital Signal Processing	4 cr. (Prereq: ENG EC 401)