

THE COLLEGE OF NEW JERSEY
 DEGREE REQUIREMENTS FOR ENGINEERING SCIENCE - (ESIB)
Engineering Management/Mechanical Specialization

NAME _____ SS# _____

Admission Term _____ Date _____
 (On or after 9/03)

Total Number of transfer credits from 2-year programs _____ (not to exceed 60 credits)

Retain this sheet to record progress toward your degree. Eligibility for graduation requires:

- 1) completion of or testing out of all courses printed on this sheet (and/or courses entered by faculty advisor with your approval)
- 2) minimum of 42 s.h. earned at TCNJ excluding credit by exam
- 3) minimum of 133 s.h. excluding Basic Skills and Seminar courses
- 4) a cumulative grade point average of 2.00
- 5) meeting all Engineering Department policy requirements

Gender	_____
Western	_____
Non-Western	_____

I. General Education Requirements 29 S.H.
 (Consult College Catalog or Course Schedule for acceptable courses)

Plan Grade Sem	Cr	TCNJ Course Required	Cr
___ ___ ENGR 095 Intro to. Engr.	0	_____	___
___ ___ WRI 102 Academic Writing	4	_____	___
___ ___ IDSC 151 Athens to New York	3	_____	___
___ ___ IDSC 252 Soc. Ethics & Tech.	3	_____	___
___ ___ Social Sciences (process) 3	3	ECON 200 Prin. of Econ:Micro	___
___ ___ Social Sciences (content)	4	PSY 101 Intro. To Psychology	___
___ ___ Fine or Performing Arts	3	STEC 161 Creative Design	___
___ ___ History	3	_____	___
___ ___ Literature	3	_____	___
___ ___ Philosophy/Religion	3	_____	___

II. Math and Physical Science 39 S.H

Plan Grade Sem	Cr	TCNJ Course Required	Cr
___ ___ MAT 127 Calculus A	4	_____	___
___ ___ MAT 128 Calculus B	4	_____	___
___ ___ MATH 229 Calculus III	3	_____	___
___ ___ MATH 386 Differential Eqns.	3	_____	___
___ ___ ENGR 272 Adv. Engr. Math I	3	_____	___
___ ___ ENGR 342 Adv. Engr. Math II	3	_____	___
___ ___ MECH 321 Numerical Analysis	3	_____	___
___ ___ CSC 215 Computer Prgm.(FORT)	4	_____	___
___ ___ PHY 201 General Physics I	4	_____	___
___ ___ PHY 202 General Physics II	4	_____	___
___ ___ CHE 201 General Chemistry I	4	_____	___

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ENGINEERING SCIENCE PROGRAM CONTROL SHEET

Engineering Management/Mechanical Specialization

III. Engineering Science Requirements 26 S.H.

Plan Grade Sem	Cr	Authorized Substitution	Cr
___ ___ ENGR 091/92 Engr. Seminar Fr. #1/#2	0	_____	_____
___ ___ ENGR 093/94 Engr. Seminar Jr. #1/#2	0	_____	_____
___ ___ ENGR 098 Fundamentals of Engineering Review	0	_____	_____
___ ___ ENGR 099 Sr. Professional Seminar	0	_____	_____
___ ___ ENGR 142 Fund. of Engr. Design	3	_____	_____
___ ___ ENGR 212 Circuit Analysis	3	_____	_____
___ ___ ENGR 214 Circuit Analysis Laboratory	1	_____	_____
___ ___ ENGR 222 Statics	3	_____	_____
___ ___ ENGR 262 Dynamics	3	_____	_____
___ ___ ENGR 312 Digital Cks. & Microprocessors	3	_____	_____
___ ___ ENGR 322 Thermodynamics	3	_____	_____
___ ___ ENGR 352 Control Systems I	3	_____	_____
___ ___ ENGR 354 Control Systems Laboratory	1	_____	_____
___ ___ ENGR 372 Engineering Economy	3	_____	_____

IV. Engineering Specialization Requirements 41 S.H.

Electrical Specialization

Plan Grade Sem	Cr	Authorized Substitution	Cr
___ ___ ACCT 260 Accounting Principles I	3	_____	_____
___ ___ ECON 201 Prin. of Econ:Macro	3	_____	_____
___ ___ BUSN 217 Legal Envir. of Business	3	_____	_____
___ ___ MGMT 310 Mgmt. of Organizational Behavior	3	_____	_____
___ ___ MKTG 340 Marketing Principles	3	_____	_____
___ ___ ENGR 152 Engineering Materials Science	3	_____	_____
___ ___ ENGR 232 Manufacturing Processes	3	_____	_____
___ ___ MECH 251 Strength of Materials	3	_____	_____
___ ___ MECH 263 Mechanical Engr. Lab. I	1	_____	_____
___ ___ MECH 311 Mechanical Design Analysis I	3	_____	_____
___ ___ MECH 361 Fluid Mechanics	3	_____	_____
___ ___ ENGR 452 Project Management	3	_____	_____
___ ___ MECH 495 Senior Project I	1	_____	_____
___ ___ MECH 496 Senior Project II	3	_____	_____
___ ___ Area Elective (by advisement)	3	_____	_____

DATE: _____

EVALUATOR: _____

_____ Degree Completion

ALL SUBSTITUTIONS MUST BE ACCOMPANIED BY A SIGNED COURSE SUBSTITUTION FORM.

COMMENTS: _____

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