

**THE COLLEGE OF NEW JERSEY**  
**DEGREE REQUIREMENTS FOR ENGINEERING SCIENCE - (ESIB)**  
**Engineering Management/Electrical 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	_____	_____
____ WRJ 102 Academic Writing	4	_____	_____
____ IDSC 151 Athens to New York	3	_____	_____
____ IDSC 252 Soc, Ethics & Tech.	3	_____	_____
____ Social Sciences (process)	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. C++	4	_____	_____
____ PHY 201 General Physics I	4	_____	_____
____ PHY 202 General Physics II	4	_____	_____
____ CHE 201 General Chemistry I	4	_____	_____

## ENGINEERING SCIENCE PROGRAM CONTROL SHEET

### Engineering Management/Electrical 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 Principles of Economics: 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	_____	_____
___ ___ ELEC 251 Electronics	3	_____	_____
___ ___ ELEC 321 Systems & Signals	3	_____	_____
___ ___ ELEC 333 Electrical Engr. Lab. I	1	_____	_____
___ ___ ELEC 341 Communication Systems	3	_____	_____
___ ___ ENGR 452 Project Management	3	_____	_____
___ ___ ELEC 495 Senior Project I	1	_____	_____
___ ___ ELEC 496 Senior Project II	3	_____	_____
___ ___ Area Elective (by advisement)	3	_____	_____

**V. ELECTIVES** 2 S.H.

DATE: \_\_\_\_\_

EVALUATOR: \_\_\_\_\_

\_\_\_\_\_ Degree Completion

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

**COMMENTS:** \_\_\_\_\_

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