

THE COLLEGE OF NEW JERSEY
DEGREE REQUIREMENTS
Bachelor of Science in Electrical Engineering (ESEE)

NAME _____ SS# _____

Admission Term _____ Date _____

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 28 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	ECON 200 Microeconomics	___
___ ___ Social Sciences (content)	3	_____	___
___ ___ Fine or Performing Arts	3	STEC 161 Creative Design	___
___ ___ History	3	_____	___
___ ___ Literature	3	_____	___
___ ___ Philosophy/Religion	3	_____	___

II. Math and Physical Science 35 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	_____	___
___ ___ CMSC 210 Disc. Structures	3	_____	___
___ ___ PHY 201 General Physics I	4	_____	___
___ ___ PHY 202 General Physics II	4	_____	___
___ ___ CHE 201 General Chemistry I	4	_____	___

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III. General Engineering Requirements 26 S.H.

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

IV. Electrical Engineering Requirements 44 S.H.

Plan			Cr	Authorized Substitution	Cr
Grade	Sem				
___	___	CMSC 220	Comp. Sci. I Computational Prob.Solving	_____	_____
___	___	ELEC 251	Electronics	_____	_____
___	___	ELEC 321	Systems & Signals	_____	_____
___	___	ELEC 333	Electrical Engr. Lab. I	_____	_____
___	___	ELEC 341	Communication Systems	_____	_____
___	___	ELEC 361	Digital Signal Processing	_____	_____
___	___	ELEC 363	Electrical Engr. Lab. II	_____	_____
___	___	ELEC 373	Electrical Engr. Lab. III	_____	_____
___	___	ELEC 411	Embedded Systems	_____	_____
___	___	ELEC 423	Engineering Electromagnetics	_____	_____
___	___	ELEC 441	Advanced Digital Design	_____	_____
___	___	ELEC 443	Microcomputer Systems	_____	_____
___	___	ELEC 451	Computer Architecture & Organization	_____	_____
___	___	ELEC 495	Senior Project I	_____	_____
___	___	ELEC 496	Senior Project II	_____	_____
___	___	Area Elective	*see approved list	_____	_____
___	___	Area Elective	*see approved list	_____	_____

DATE: _____

EVALUATOR: _____

_____ Degree Completion

Any deviation from the above course listing must be authorized by your advisor and the department chair (see Course Substitution Approval Form).

*Area electives must be chosen from the following approved list:

- | | | | |
|----------|--------------------------|----------|-------------------------------|
| ELEC 421 | Control Systems II | ENGR 252 | Electronic Devices & Circuits |
| ELEC 431 | RF/Microwave Engineering | ENGR 452 | Project Management |
| ELEC 471 | VLSI Design | ENGR 472 | Special Topics in Engineering |
| ELEC 481 | Robotics | | |
| ELEC 492 | Independent Study | | |