NJIT New Jersey's Science & Technology University

Name: _____ SID#: _____ Email: _____

Program Start Date: _____ Previous Higher Ed. Institution(s): _____

Electrical and Computer Engineering Technology Program of Study

Freshman (31 Credits)

		Grades			Grades
Math 138	General Calculus I (3-0-3)		Math 238	General Calculus II (3-0-3)	
Phys 102	General Physics (3-0-3)		Phys 103	General Physics (3-0-3)	
Phys 102A	General Physics Lab (0-2-1)		Phys 103A	General Physics Lab (0-2-1)	
CS 106	Comp Prog. and Prob. Solving (3-0-3)		ECET 201	Circuits I (2-2-3)	
HUM 101 (GUR)[1]	Writing, Thinking, Speaking (3-0-3)		ECET 215	Intro. Digital Electronics (2-2-3)	
MET 103	Eng. Graphics & Intro/CAD (1-2-2)		HUM 102 (GUR)[1]	Writing, Thinking, Speaking II (3-0-3)	
ET 101	Intro. to Engineering Tech. (0-2-0)				
Freshman Seminar	Freshman Seminar (1-0-0)				
	Total: (15)			**Total**: **(16)**	

Sophomore (32 Credits)

Elective[3]	Technical [n-n-3](200+)		ECET 205	Fund. of Analog Electronics (2-2-3)	
ECET 202	Circuits II & Analog Intro. (2-2-3)		ECET 214	Intro. to Communications (2-2-3)	
CPT 315	Computer Architecture (2-2-3)		Econ 201	Economics (3-0-3)	
Elective (GUR)[1]	EPS 202/Rutgers Equiv. (3-0-3)		Elective[3]	Technical [n-n-3] (200+)	
Elective (GUR)[1]	HUM 211, HUM 212 or HIST 213 (3-0-3)		Elective[4]	Free [n-n-3](200+)	
PE	Physical Education (0-1-1)		PE	Physical Education (0-1-1)	
	Total: **(16)**			**Total: (16)**	

Junior (33 credits)

Math 309	Math Analysis for Techs (4-0-4)		Math 322	Diff Equations for Tech. (3-0-3)	
ECET 303	Circuit Measurements (1-3-2)		ECET 300	Circuit Analysis-Transforms (3-0-3)	
ECET 311	Embedded Systems I (2-2-3)		ECET 305	Integrated Circuit Applications (2-2-3)	
ECET 365	Digital Logic & Circuit Design (3-0-3)		ECET 344	Numerical Computing for E.T. (2-2-3)	
Eng 352 (GUR)[1,7]	Technical Writing: (3-0-3)		ECET 411	Embedded Systems II (2-2-3)	
			Elective[4]	Free [3-0-3](300+)	
	Total: **(15)**			**Total: (18)**	

Senior (33 credits)

ECET 401	Senior Project I (2-0-2)		ECET 402	Senior Project II (0-2-1)	
Math 305 (or MNET 315)	Statistics (3-0-3)		Chem 301	Chemical Technology (2-2-3)	
Mgmt 390	Principles of Mgmt. (3-0-3)		MNET 414	Industrial Cost Analysis (3-0-3)	
Elective (GUR)[1]	LIT/HIST/PHIL/STS (3-0-3)(300+)		Elective (GUR)[1,2]	Cap. Seminar: HSS [3-0-3]	
Elective[5,6]	Technical [3-0-3] ECET		Elective[5,6]	Technical [3-0-3]	
Elective[5,6]	Technical [3-0-3] ECET		Elective[5,6]	Technical [3-0-3]	
	Total: (17)			**Total: (16)**	

Lower Division Courses 100 / 200 Level Courses

Upper Division Courses 300 / 400 Level Courses

Courses Listed as: *Course Number – Course Name (lecture hours-lab hours-credits)(minimum level)* Generally, all upper division courses **must** be taken at NJIT.

[1]**GUR**: General University Requirement. [2]**Capstone Seminar**: A 400 level HSS course listed as a capstone seminar in the course description. http://catalog.njit.edu

[4]**Free Electives Lower/Upper Division**: Any course offered by the university, may be technical or non-technical. Lower division must be 200+ level. Upper division must be 300+ level.

[3]**Tech Electives Lower Division**: Any 200+ level course with a technical subject matter. Suggestions: CPT courses (excluding CPT 310), PHYS, IT, CS, MATH, IS, IE.

[5]**Technical Electives Upper Division (at least 2 must be ECET)**: ECET 350, 412, 415, 416, 418, 444; MNET 420; MET 303; CPT 330, 341, 430; IT 310; and OPSE 310

[6]**Tech Elective's for Specialization**: Telecom: ECET: 415, 416, & 418. Biomed: ECET: 418, 440, and one of: BME 302, 489;

[7]**Alternates for Eng 352**: ENG 302, 333, 339, 340; HRM 301; ENTR 410