CompE Study Plan

		Required		Electives	
A	Math & Science **ABET ≥ 30**	Calculus I (differential) Calculus II (integral) Multidimensional Calculus Diff. Equations + Linear Algebra or Differential Equations Linear Algebra Physics I (Mechanics) Physics II (Electricity & Magnetism) Discrete Math Data Analysis **Total**	4 4 4 4 3-4 3-4 3 4 4 4 **≥31**	Two math and science electives. For example: advanced courses in Math, Physics, and Computer Science. Alternatively: Biology, Chemistry, etc. **Total** **Math & Science ≥ 36**	3-4 3-4 **≥6**
B	Humanities **NYU ≥ 24**	Expos I: Writing Essay Expos II: Advanced Writing Essay **Total**	4 4 **8**	HUSS Elective HUSS Elective HUSS Elective HUSS Elective (Suggestions: Economics and Ethics) **Total**	4 4 4 4 **16**
ABET (A) + NYU (B) ≥ 54 ; NYS Requirement A+B ≥ 60 ; We have ≥61					
C	ECE/CS	Intro to ECE EG: Eng. Design & Technology Freshman Forum Professional Development Programing and Problem Solving Data Structures & Algorithms Object Oriented Programing Digital Logic Computer Architecture Circuits Electronics 1 Embedded Systems **Required**	2 3 1 1 4 4 4 4 4 4 4 4 **39**	ECE elective ECE/CSE elective ECE/CSE elective (if necessary) **Total**	3-4 3-4 3-4 **≥7**
ABET ≥ 45				**We have C≥46**	
D	Free Electives (Suggested)	Advanced courses: take a CE specialization, graduate courses, etc. Minors: business, cyber security, robotics, bio, etc. Research: internships, VIP, etc.		**Free Electives**	**15**
E	Design **ABET (no credit restrictions)**			DP1(3) or VIP(3) DP2(3) Thesis, etc. **Electives**	 **6**
Total number of credits ≥ 128					