

**UNC Charlotte – Electrical and Computer Engineering Curricula**  
Approved 10/24/19

**Table 4.1: ICAP Courses in Which Data is Gathered Annually (EE).**

Course	Description	(1)	(2)	(3)	(4)	(5)	(6)	(7)
ENGR 1202 (spring)	Introduction to Engineering Practices & Principles II			x		x	x	
ECGR 2156 (spring)	Logic & Networks Laboratory			x			x	x
ECGR 2112 (spring)	Network Theory II	x						
ECGR 3131 (fall)	Electronics-I	x	x					
ECGR 3155 (fall)	Systems & Electronics Laboratory			x			x	x
ECGR 3157 (spring)	ECE Junior Design	x	x	x	x	x		
ECGR 3112 (spring)	System Analysis II	x	x					
ECGR 4124 (fall)	Digital Signal Processing	x						
ECGR 4241 (fall)	Senior Design I	x	x	x		x	x	
ECGR 4242 (spring)	Senior Design II	x	x	x		x	x	
ECGR 3159 (spring)	Professional Practice				x	x		x

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

**Table 4.2: ICAP Courses in Which Data is Gathered Annually (CpE).**

Course	Description	(1)	(2)	(3)	(4)	(5)	(6)	(7)
ENGR 1202 (spring)	Introduction to Engineering Practices & Principles II			x		x		
ECGR 2156 (spring)	Logic & Networks Laboratory			x			x	x
ECGR 2112 (spring)	Network Theory II	x						
ECGR 3131 (fall)	Electronics-I	x	x					
ECGR 3155 (fall)	Systems & Electronics Laboratory			x			x	x
ECGR 3157 (spring)	ECE Junior Design	x	x	x	x	x		
ECGR 3101 (spring)	Embedded Systems	x	x					
ECGR 4124 (fall)	Digital Signal Processing	x						
ECGR 4251 (fall)	Senior Design I	x	x	x		x	x	
ECGR 4252 (spring)	Senior Design II	x	x	x		x	x	
ECGR 3159 (spring)	Professional Practice				x	x		x

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6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.