

UNC Charlotte – Electrical and Computer Engineering Curricula

Proposed 4/21/2017 – Version 2

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

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
ENGR 1202 (spring)	Introduction to Engineering Practices & Principles II	(x)	(x)	(x)				X					
ECGR 2103 (fall)	Computer Utilization in C++					X						X	
ECGR 2156 (spring)	Logic & Networks Laboratory	X	X					X				X	
ECGR 2112 (spring)	Network Theory II	X				(X)						(X)	
ECGR 2252 (spring)	ECE Sophomore Design	X		X			X	X				X	
ECGR 3131 (fall)	Electronics-I	X		X								(X)	
ECGR 3155 (fall)	Systems & Electronics Laboratory		X					X				X	
ECGR 3157 (spring)	ECE Junior Design	X		X		X		X				X	
ECGR 3159 (spring)	Professional Practice				X			X	X				X
ECGR 4123 (fall)	Analog & Digital Communication	X										X	
ECGR 4124 (fall)	Digital Signal Processing	X										X	
ECGR 4241 (fall)	Senior Design I	X	X	X	X	X		X				X	
ECGR 4242 (spring)	Senior Design II	X	X	X	X	X		X				X	
ENGR 3295 (fall)	Professional Development						X		X	X	X		

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

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
ENGR 1202 (spring)	Introduction to Engineering Practices & Principles II	(x)	(x)	(x)				X					
ECGR 2103 (fall)	Computer Utilization in C++					X						X	
ECGR 2156 (spring)	Logic & Networks Laboratory	X	X					X				X	
ECGR 2112 (spring)	Network Theory II	X				(X)						(X)	
ECGR 2252 (spring)	ECE Sophomore Design	X		X			X	X				X	
ECGR 3101 (spring)	Embedded Systems			X		X						X	
ECGR 3131 (fall)	Electronics-I	X		X								(X)	
ECGR 3155 (fall)	Systems & Electronics Laboratory	X	X					X				X	
ECGR 3157 (spring)	ECE Junior Design	X		X		X		X				X	
ECGR 3159 (spring)	Professional Practice				X			X	X				X
ECGR 4124 (fall)	Digital Signal Processing	X										X	
ECGR 4251 (fall)	Senior Design I	X	X	X	X	X		X				X	
ECGR 4252 (spring)	Senior Design II	X	X	X	X	X		X				X	
ENGR 3295 (fall)	Professional Development						X		X	X	X		

- (a) An ability to apply knowledge of mathematics, science, and engineering
- (b) An ability to design and conduct experiments, as well as to analyze and interpret data
- (c) An ability to design a system, component, or process to meet desired needs
- (d) An ability to function on multi-disciplinary teams
- (e) An ability to identify, formulate, and solve engineering problems
- (f) An understanding of professional and ethical responsibility
- (g) An ability to communicate effectively
- (h) An ability to understand the impact of engineering solutions in a global and societal context
- (i) A recognition of the need for, and an ability to engage in life-long learning
- (j) A knowledge of contemporary issues
- (k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- (l) The ability to articulate and address issues related to entrepreneurship