

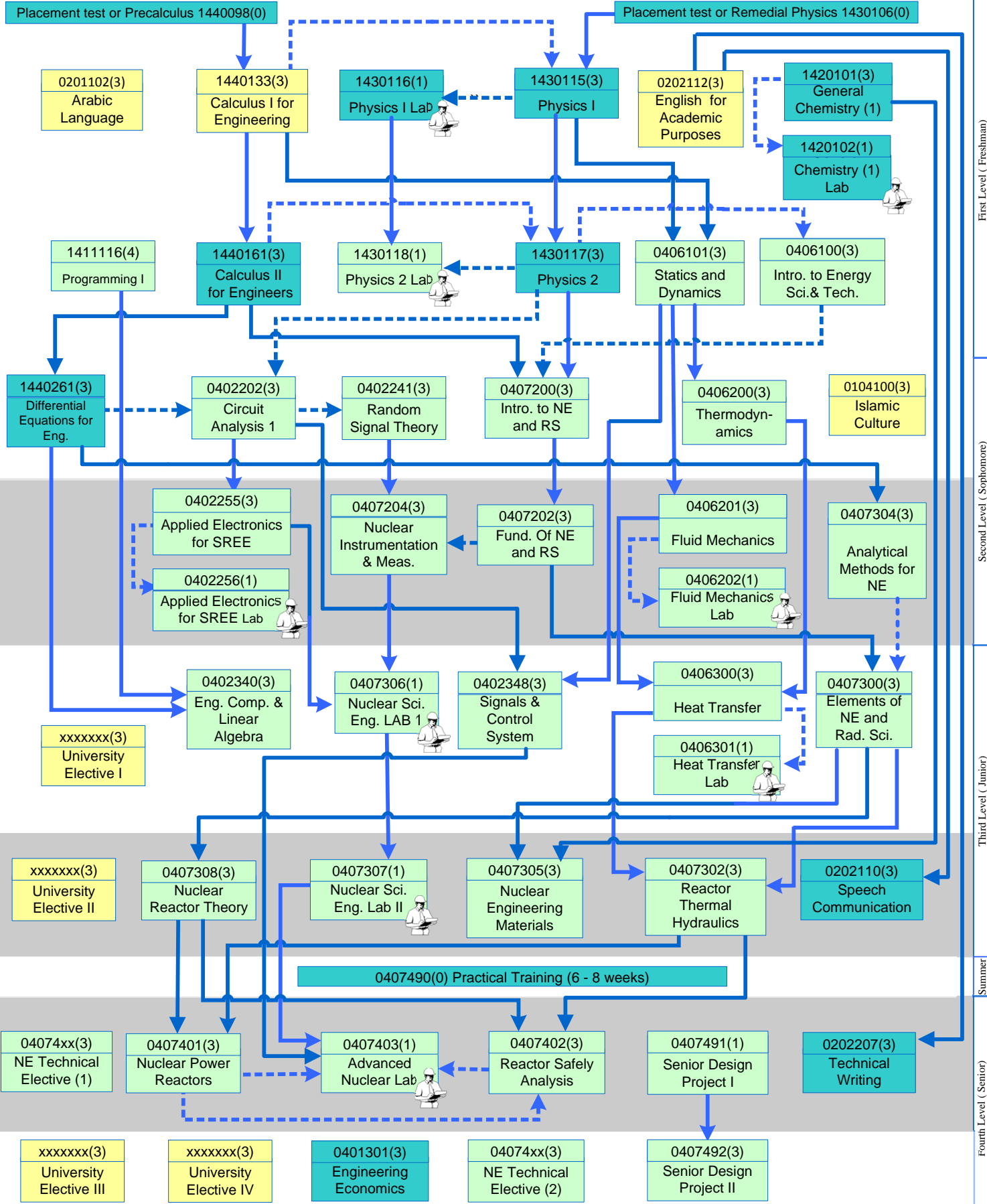
College of Engineering

Department of Nuclear Engineering

Study Plan for the NE Program- Pre/Co- requisite Flowchart

	University Requirement	
	College Requirement	
	Program Requirement	
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Course A</div> → <div style="border: 1px solid black; padding: 2px; display: inline-block;">Course B</div>	Course A is a Pre-requisite to course B	
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Course A</div> - - - → <div style="border: 1px solid black; padding: 2px; display: inline-block;">Course B</div>	Course A is a Pre/Co-requisite to course B	

0407306(1)		Course Code
Nuclear Sci. Eng. LAB 1		Credit hours
		Course name
		lab



First Level (Freshman)
Second Level (Sophomore)
Third Level (Junior)
Summer
Fourth Level (Senior)

Department of Nuclear Engineering

College of Engineering – University of Sharjah

Semester-by-Semester Plan for the NE Program

Freshman Year					
First Semester			Second Semester		
0202112	English for Academic Purposes	3	1440161	Calculus II for Engineers	3
1440131	Calculus I for Engineering	3	1430117	Physics 2	3
1430115	Physics I	3	1430118	Physics 2 Lab	1
1430116	Physics I Lab	1	1411116	Programming I	4
1420101	General Chemistry (1)	3	0406100	Intro. to Energy Sci. & Tech.	3
1420102	General Chemistry (1) Lab	1	0406101	Statics & Dynamics	3
0201102	Arabic Language	3			
	Total	17		Total	17
Sophomore Year					
Third Semester			Fourth Semester		
0402241	Random Signal Theory	3	0407202	Fund. of Nuclear Eng. & Radio. Sc.	3
0406200	Thermodynamics	3	0407304	Analytical Methods for NE	3
0407200	Intro to NE and RS	3	0402255	Applied Electronics for SREE	3
1440261	Differential Equations for Eng.	3	0402256	Applied Electronics Lab for SREE	1
0402202	Circuit Analysis I	3	0407204	Nuclear Instrumentation & Meas.	3
0104100	Islamic Culture	3	0406201	Fluid Mechanics	3
			0406202	Fluid Mechanics Lab	1
	Total	18		Total	17
Junior Year					
Fifth Semester			Sixth Semester		
0407300	Elements of NE and Rad. Sci.	3	0407302	Reactor Thermal Hydraulics	3
0406300	Heat Transfer	3	0407305	Nuclear Engineering Materials	3
0406301	Heat Transfer Lab	1	0407308	Nuclear Reactor Theory	3
0402340	Eng. Comp. & Linear Algebra	3	0407307	Nuclear Sci. Eng. Lab II	1
0407306	Nuclear Sci. Eng. Lab I	1	0202110	Speech Communication	3
0302200	University Elective I	3	xxxxxxx	University Elective II	3
0402348	Signals & Control System	3			
	Total	17		Total	16
Summer Semester					
0407490	Practical Training (6 - 8 weeks)	0			
Senior Year					
Seventh Semester			Eighth Semester		
04074xx	NE Technical Elective (1)	3	0407492	Senior Design Project II	3
0407491	Senior Design Project I	1	04074xx	NE Technical Elective (2)	3
0407402	Reactor Safety Analysis	3	xxxxxxx	University Elective III	3
0407401	Nuclear Power Reactors	3	xxxxxxx	University Elective IV	3
0407403	Advanced Nuclear Lab	1	0401301	Engineering Economics	3
0202207	Technical Writing	3			
	Total	14		Total	15
TOTAL = 131					

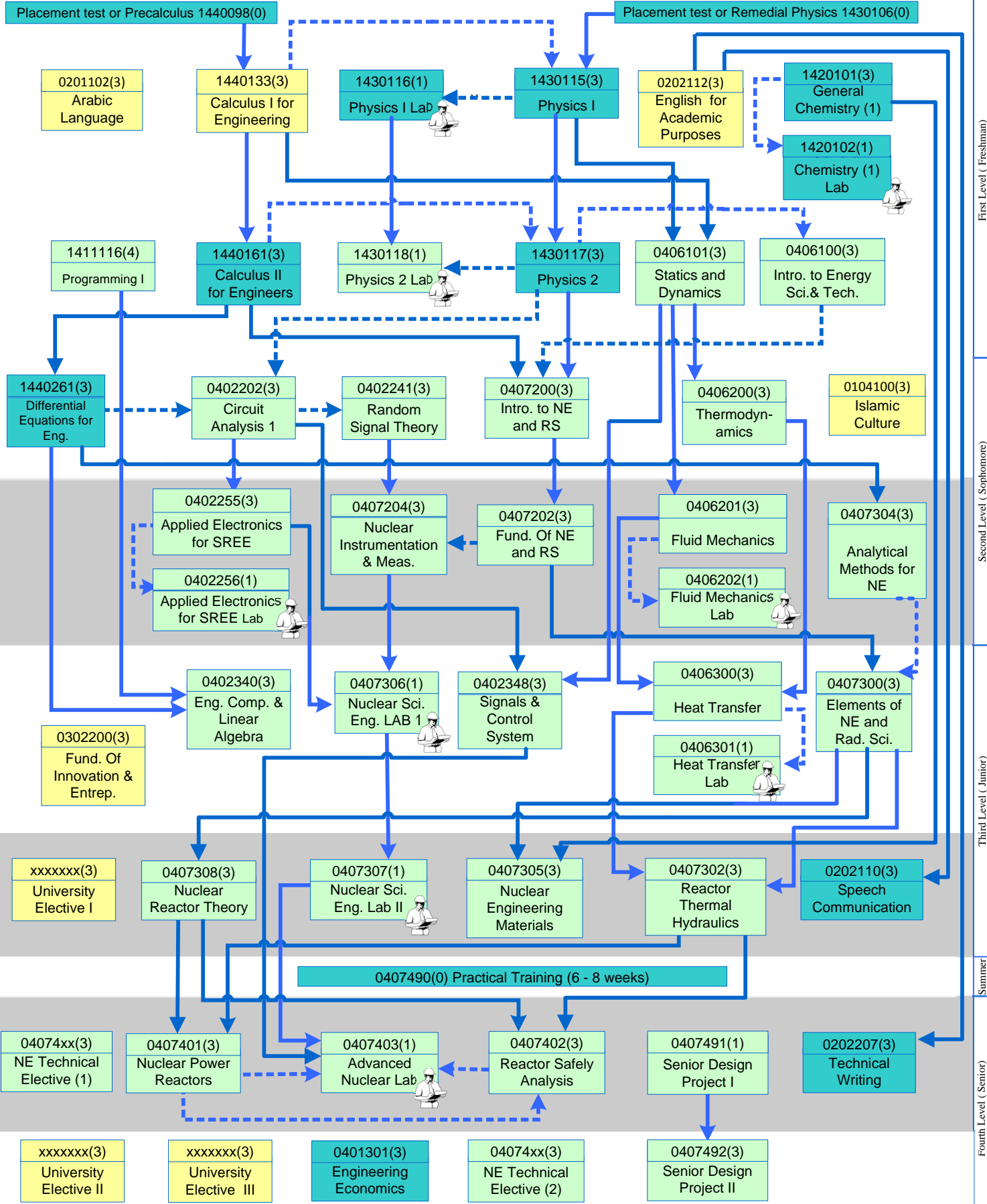
College of Engineering

Department of Nuclear Engineering

Study Plan for the NE Program- Pre/Co- requisite Flowchart (From Fall 2016 and after)

	University Requirement						
	College Requirement						
	Program Requirement						
Course A → Course B	Course A is a Pre-requisite to course B						
Course A - - -> Course B	Course A is a Pre/Co-requisite to course B						

0407306(1)		Nuclear Sci. Eng. LAB 1	Course Code Credit hours Course name lab
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First Level (Freshman)
Second Level (Sophomore)
Third Level (Junior)
Summer
Fourth Level (Senior)

Department of Nuclear Engineering

College of Engineering – University of Sharjah

Semester-by-Semester Plan for the NE Program (From Fall 2016 and after)

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<i>First Semester</i>			<i>Second Semester</i>			
0202112	English for Academic Purposes	3	1440161	Calculus II for Engineers		3
1440131	Calculus I for Engineering	3	1430117	Physics 2		3
1430115	Physics I	3	1430118	Physics 2 Lab		1
1430116	Physics I Lab	1	1411116	Programming I		4
1420101	General Chemistry (1)	3	0406100	Intro. to Energy Sci. & Tech.		3
1420102	General Chemistry (1) Lab	1	0406101	Statics & Dynamics		3
0201102	Arabic Language	3				
	Total	17		Total		17
Sophomore Year						
<i>Third Semester</i>			<i>Fourth Semester</i>			
0402241	Random Signal Theory	3	0407202	Fund. of Nuclear Eng. & Radio. Sc.		3
0406200	Thermodynamics	3	0407304	Analytical Methods for NE		3
0407200	Intro to NE and RS	3	0402255	Applied Electronics for SREE		3
1440261	Differential Equations for Eng.	3	0402256	Applied Electronics Lab for SREE		1
0402202	Circuit Analysis I	3	0407204	Nuclear Instrumentation & Meas.		3
0104100	Islamic Culture	3	0406201	Fluid Mechanics		3
			0406202	Fluid Mechanics Lab		1
	Total	18		Total		17
Junior Year						
<i>Fifth Semester</i>			<i>Sixth Semester</i>			
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0406300	Heat Transfer	3	0407305	Nuclear Engineering Materials		3
0406301	Heat Transfer Lab	1	0407308	Nuclear Reactor Theory		3
0402340	Eng. Comp. & Linear Algebra	3	0407307	Nuclear Sci. Eng. Lab II		1
0407306	Nuclear Sci. Eng. Lab I	1	0202110	Speech Communication		3
0302200	Fund. Of Innovation & Entrep.	3	xxxxxxx	University Elective I		3
0402348	Signals & Control System	3				
	Total	17		Total		16
Summer Semester						
	0407490	Practical Training (6 - 8 weeks)				0
Senior Year						
<i>Seventh Semester</i>			<i>Eighth Semester</i>			
04074xx	NE Technical Elective (1)	3	0407492	Senior Design Project II		3
0407491	Senior Design Project I	1	04074xx	NE Technical Elective (2)		3
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0407401	Nuclear Power Reactors	3	xxxxxxx	University Elective III		3
0407403	Advanced Nuclear Lab	1	0401301	Engineering Economics		3
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