

# UNIVERSITY OF NORTH ALABAMA / UNIVERSITY OF ALABAMA

Effective Fall 2014

## Physics / Electrical Engineering Dual Degree Engineering Program

	<i>First Semester</i>				<i>Second Semester</i>			
			Grade	Sem/ year			Grade	Sem/ year
<b>UNA – Year 1</b>	EN 111 or EN 121	3 hrs.			EN 112 or EN 122	3 hrs.		
	1 <sup>st</sup> History Course	3 hrs.			2 <sup>nd</sup> History Course	3 hrs.		
	MA 125 Calculus I	4 hrs.			MA 126 Calculus ii	4 hrs.		
	PH 251 Technical Physics I	5 hrs.			PH 252 Technical Physics II	5 hrs.		
	<b>TOTAL</b>	<b>15 hrs.</b>			<b>TOTAL</b>	<b>15 hrs.</b>		
<b>UNA – Year 2</b>	1 <sup>st</sup> Literature Course	3 hrs.			2 <sup>nd</sup> Literature Course	3 hrs.		
	CS 155 Computer Sci I	3 hrs.			CS 255 Computer Sci II	3 hrs.		
	MA 227 Calculus III	4 hrs.			MA 355 Differential Eqns	3 hrs.		
	PH 343 Modern Physics	4 hrs.			PH 356W Intermediate Lab.	4 hrs.		
	PH 471 Classical Dynamics	3 hrs.			PH 444 Quantum Mechanics	3 hrs.		
	<b>TOTAL</b>	<b>17 hrs.</b>			<b>TOTAL</b>	<b>16 hrs.</b>		
<b>UNA – Year 3</b>	1 <sup>st</sup> Social & Behav. Sci. Elec	3 hrs.			2 <sup>nd</sup> Social & Behav. Sci. Elec	3 hrs.		
	MA 325 Discrete	3 hrs.			MA 431 Linear Algebra	3 hrs.		
	PH 447 Electricity & Magnetism	3 hrs.			PH 448 Electromag.Fields	3 hrs.		
	PH 456 Thermo. and Stat.Mech	3 hrs.			PH 48X Topics in Physics	3 hrs.		
	PH 495 Directed Research	2 hrs.			PH 495 Directed Research	2 hrs.		
	<b>TOTAL</b>	<b>14 hrs.</b>			<b>TOTAL</b>	<b>15 hrs.</b>		
<b>UA – Year 1</b>	ECE 225 Electric Circuits	4 hrs.			ECE 332 Electronics I	4 hrs.		
	ECE 380 Digital Logic	4 hrs.			ECE 326 Electric Networks	3 hrs.		
	MA 355 Probability	3 hrs.			ECE 350 Electric Power	3 hrs.		
	CH 101 General Chemistry	4 hrs.			ECE 383 Microcomputers	4 hrs.		
	<b>TOTAL</b>	<b>15 hrs.</b>			<b>TOTAL</b>	<b>14 hrs.</b>		
	<b>UA – Year 2</b>	ECE 333 Electronics II	4 hrs.			ECE 494 Capstone Design II	2 hrs.	
ECE Lecture/Lab		4 hrs.			ECE Lecture/Lab	4 hrs.		
ECE 370 Signals & Systems		3 hrs.			ECE Elective	3 hrs.		
ECE 492 Capstone Design I		2 hrs.			Fine Arts/Humanities Elective	3 hrs.		
COM 123 Speech		3 hrs.						
<b>TOTAL</b>		<b>13 hrs.</b>			<b>TOTAL</b>	<b>12 hrs.</b>		

NOTE: All students participating in this program of study must be a declared physics major and be advised by the designated UNA Physics DDEP advisor while enrolled at UNA.