

Honors Track 2 Curriculum Check Sheet - - Effective FA 18 and after **Program Total Credits = 166**

COURSE	NAME (PREREQS (";" DENOTES "AND"))	TERM	C	COURSE	NAME (PREREQS (";" DENOTES "AND"))	TERM	CR
1st Year Fall				1st Year Spring			
BIOM 100	Overview of Biomedical Engineering	F	1	ECE 103	DC Circuit Analysis (MATH 160)	F, S	3
CHEM 111	General Chemistry I (MATH 118 or 141 or 155 or 160 or 161 or 229 or 261; CHEM 105 or an appropriate score in the chemistry preparation module)	F, S, SS	4	MATH 161	Calculus for Physical Scientists II (MATH 124; MATH 159 or 160)	F, S, SS	4
ECE 102	Digital Circuit Logic	F, S	4	LIFE 102	Attributes of Living Systems	F, S,	4
HONR 192	Honors First Year Seminar	F	4	PH 141	Physics for Scientists and Engineers I (MATH 126 or conc.; MATH 155 or 159 or 160 or conc.)	F, S, SS	5
MATH 160	Calculus for Physical Scientists I (MATH 124 and 126 (B or better))	F, S, SS	4				
Total 17				Total 16			

2nd Year Fall				2nd Year Spring			
BIOM 200	Fundamentals of Biomedical Engineering (BIOM 100 or conc.; LIFE 102; MATH 160)	F	2	CO 150	College Composition (CO 130 or placement by ACT/SAT or DSP Survey or Challenge Exam)	F, S, SS	3
CHEM 112^	General Chemistry Lab I (CHEM 111 or 117 or conc.)	F, S, SS	1	ECE 202	Circuit Theory Applications (ECE 103, MATH 160)	S, SS	4
CS 163 OR CS 164	Java (CS1) No Prior Programming (MATH 124) OR Java (CS1) Prior Programming (MATH 124)	F, S	4	ECE / STAT 303	Introduction to Communication Principles (MATH 261 ; MATH 340 or 345 or conc.)	S	3
MATH 261^	Calculus for Physical Scientists III (MATH 161)	F, S, SS	4	HONR 292 OR 293	Honors Seminar -- Knowing in Arts & Humanities OR -- Knowing Across Cultures (HONR 193)	F, S	3
PH 142	Physics for Scientists and Engineers II (PH 141; MATH 161 or 255 or 271 or conc.)	F, S	5	MATH 340^	Introduction to Ordinary Differential Equations (MATH 255 or 261)	F, S, SS	4
Total 16				Total 17			

3rd Year Fall				3rd Year Spring			
ECE 311^	Linear Systems Analysis I (ECE 202; MATH 340 or 345; ECE 331 or conc.; ECE 341 or ECE 451 or conc.)	F	3	BIOM 300	Problem-Based Learning BME Lab (BIOM 101 or BIOM 200 or (BIOM 100; CBE 205; MECH 262); MATH 340 or 345)	S	4
ECE 331	Electronics Principles I (ECE 202; MATH 340 or 345; PH142 ; ECE 311 or conc.; ECE 341 or ECE 451 or conc.)	F	4	ECE 312	Linear Systems Analysis II (ECE 311)	S	3
ECE 341^	Electromagnetics Fields and Devices I (ECE 202; MATH 340 or 345; PH 142 ; ECE 311 or conc.; ECE 331 or conc.)	F	3	ECE 332	Electronics Principles II (ECE 331)	S	4
ECON 202 (AUCC 3C)	Principles of Microeconomics (MATH 117 or 118 or 141 or 155 or 160)	F, S, SS	3	ECE 342^	Electromagnetic Fields and Devices II (ECE 341)	S	3
BME BE	BME Broad Elective	F, S, SS	3	AUCC		F, S, SS	3
Total 16				Total 17			

4th Year Fall				4th Year Spring			
BMS 300	Principles of Human Physiology (BZ 101 or 110 or LIFE 102; CHEM 103 or 107 or 111)	F, S, SS	4	BIOM 431	Biomedical Signal and Image Processing (ECE 303; ECE 311; PH 142)	S	3
CHEM 113	General Chemistry II (CHEM 107 or 111 or 117; MATH 124 or MATH 141, 155, 160, 161, 229, 261 or conc.)	F, S, SS	3	CHEM 245	Fundamentals of Organic Chemistry (CHEM 107 or 113)	F, S, SS	4
ECE 251	Introduction to Microprocessors (ECE 102)	F	4	ECE-TE	ECE Technical Elective _____	F, S,	3
MECH 337	Thermodynamics (MATH 261; PH 141)	F, S	4	MECH 262	Engineering Mechanics (MATH 161; PH 141)	S	4
AUCC		F, S,	3	AUCC		F, S,	3
Total 18				Total 17			

5th Year Fall				5th Year Spring			
BIOM 486A	Biomedical Design Practicum: Capstone Design I (BIOM 300; (BIOM 421; CBE 320; CBE 442) or (BIOM 431; ECE 311; ECE 332; ECE 342) or (BIOM 441; MECH 301; MECH 307))	F	4	BIOM 486B	Biomedical Design Practicum: Capstone Design II (BIOM 486A; (CBE 451) or (ECE 312) or (MECH 325; MECH 344; MECH 402) or (PH 353)	S	4
BME-TE	BME Technical Elective _____		3	BME-TE	BME Technical Elective _____		3
ECE-TE	ECE Technical Elective _____	F, S, SS	3	ECE-TE	ECE Technical Elective _____	F, S, SS	3
ECE-TE	ECE Technical Elective _____	F, S, SS	2	ECE-TE	ECE Technical Elective _____	F, S, SS	3
HONR 399	Pre-Thesis - Honors	F, S	1	HONR 499	Senior Honors Thesis (HONR 399)	F, S, SS	3
CO 301B OR JTC 300	CHEM 301 or CO300 or CO301B or JTC 300 or LB 300 (CO150, HONR193)	F, S, SS	3				
Total 16				Total 16			

* - All course prerequisites for required undergraduate ECE courses must be completed with a C or better

Please note that curricula can change; be sure to check with your advisors regularly to ensure you are on track.

<p>Track 2 Honors Program Required Courses in BLUE:</p> <p>* HONR 192, 292 (A&H) or 293 (G&C), 399, 499</p> <p>* 5 honors courses in major (15 credits) **only 3cr 200-300 level</p> <p>^ Honors Sections offered in these regular classes.</p>
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<p>Additional All University Core Courses (AUCCs)</p> <p>3 cr - 3B Arts and Humanities (A&H):</p> <p>3 cr - 3C Social/Behavioral Science: ECON 202</p> <p>3 cr - 3D Historical Perspective:</p> <p>**3 cr - EITHER 3B A&H OR 3E Global/Cultural Awareness:</p>

<p>Key:</p> <p>"conc." = concurrent enrollment Term: F = Fall, S = Spring, SS = Summer Session</p> <p>Light green indicates labs</p> <p>Grey indicates Biomedical Engineering courses</p> <p>Red indicates exceptionally time-consuming/difficult courses</p> <p>Must have at least a "C" in BOLDED courses</p>
