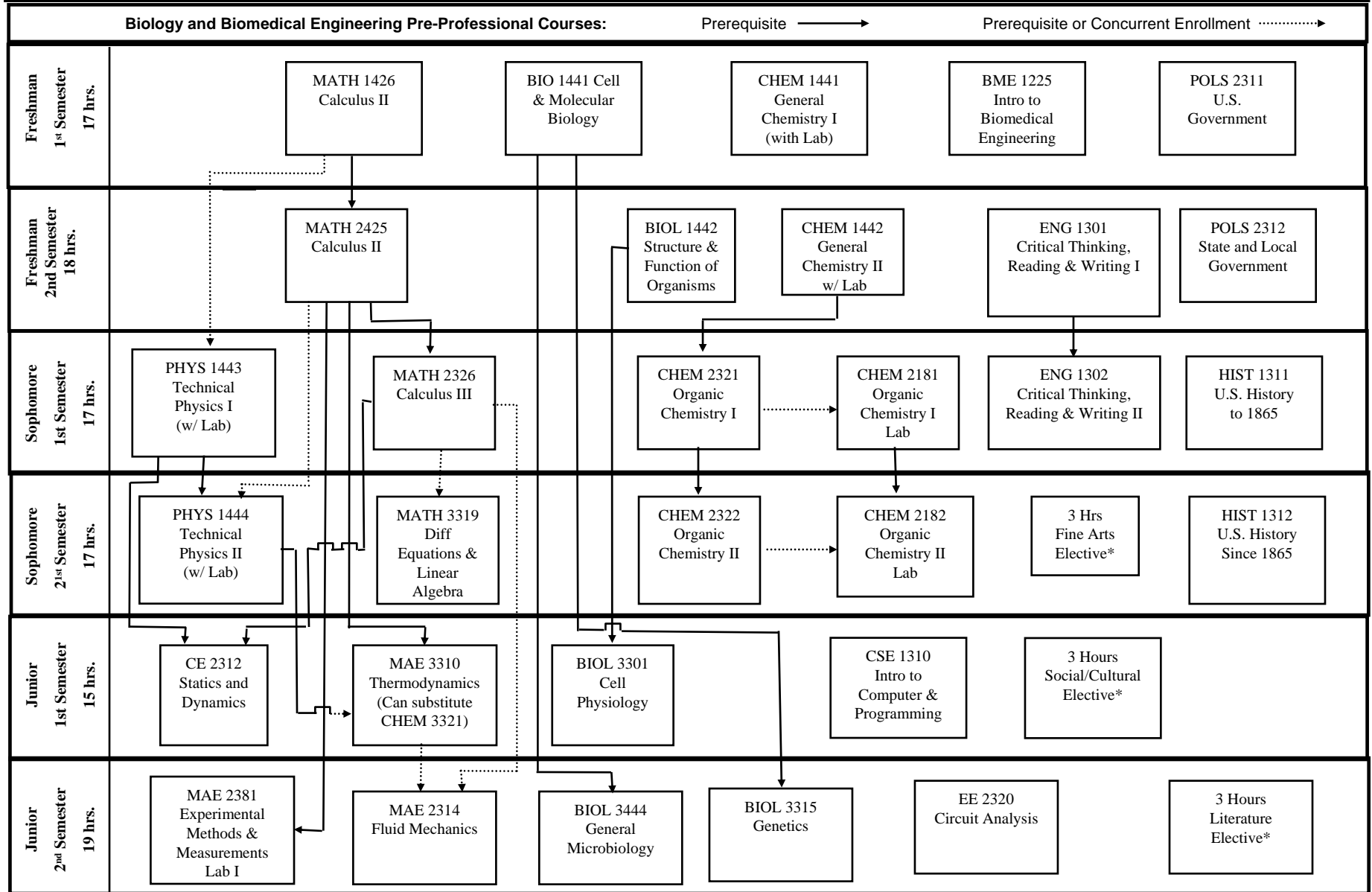


Bachelor of Science in Biology and Master of Science in Biomedical Engineering

This document serves as a supplement to the UTA Undergraduate 2007-08 Catalog, the on-line version of which is the official source of university information.



*See approved electives at www-uta.edu/biomed_eng/ or in BME Dept. This document is subject to revision.

Bachelor of Science in Biology and Master of Science in Biomedical Engineering

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Biology and Biomedical Engineering Professional and Graduate Courses: Prerequisite \longrightarrow Prerequisite or Concurrent Enrollment $\cdots\cdots\cdots\longrightarrow$

Junior Summer Sem. 3 hrs.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 5309D Human Physiology </div>					
Senior 1st Semester 16 hrs.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BIOL 3312 Immunobiology (prereq. 1441, 3444, CHEM 2182, 2321) </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> CHEM 4311 Biochemistry I </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> MAE 3183 Measurements Lab II (prereq. MAE 2314, 2381 or concurrent MAE 3314, 3319) </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> MAE 3317 Linear Systems (can substitute EE 3317) </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 5364 Tissue Engineering Lecture </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BIOL 3305 or COMS 3302 Technical Writing </div>
Senior 2nd Semester 15 hrs.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BIO 3310 Tissue Culture And Applications </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BIO 4346 Techniques in Microbial & Molecular Genetics (prereq. BIOL 1441, 3444, 3315) </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> MAE 3314 Heat Transfer (prereq. 3360, 2314, 3311) </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> MAE 3319 Dynamic Systems Modeling & Simulation </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> MAE 24345 Intro to Robotics (can substitute EE 4315) </div>	
Summer Semester 3 hrs.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 5365 Tissue Engineering Lab </div>					
Fifth Year 1st Semester 12 hrs.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BIOL 5314 Biometry (can substitute BIOL 5362) </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 5335 Biological Materials, Mechanics, and Processes </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 5361 Biomaterials, Mechanics and Processes </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 4325 Fundamentals of BME </div>		
Fifth Year 2nd Semester 11 hrs.	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 5293 MS Comprehensive Examination </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 5382 Laboratory Principles </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 5366 Process Control in Biotechnology (consent of the instructor) </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> BME 5390 Research Project in BME (consent of the instructor) </div>		