Biomedical Engineering – Cell & Tissue with Illinois Tech

Major Academic Plan (MAP) for Catalog Year 2022-2023

The catalog is the final authority on CATC and major requirements; this is intended as a tool for planning purposes. Student course sequencing may vary depending on course offerings and other variables.

ing may vary depending on course offer	ings and other variables.
Spring Semester 2	Summer 1
MATH 232: Calculus II* PHYS 232: Introductory Physics II ^s * CHEM 232: General Chemistry II ^S	Consider study, internship or research options –Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research or other options that provide
ENGW 103: Writing AHS 101: Wellness (2)	work experience, build your resume, or grow you personally.
Spring Semester 2	Summer 2
MATH 331: Vector Calculus (2)* MATH 333: Differential Equations*	Consider study, internship or research options.
BITH or ARCH 213: New Testament	
	Summer 3
Spring Semester S	Summer 3
 IIT BME 315: Instrumentation & Measurement Laboratory (2)³ IIT BIOL 115: Human Biology (3)³ IIT BIOL 117: Human Biology Lab (1)³ 	Consider study, internship or research options.
ENGR 394: Ethics Capstone (2) ^{S*}	
\mathbf{T}	
. ,	
	Summer 4
Spring Seriester 4	Summer 4
 BIOL 403: Biochemistry BME 301: Bio-fluid Mechanics (3) BME 310: Bio Materials (3) BME 320: Fluids Laboratory (1) BME 335: Thermodynamics of Living Systems (3) IPRO: IPRO Elective 1 (3) 	Consider study, internship or research options.
Spring Semester 5	Summer 5
	Spring Semester 2 MATH 232: Calculus II* PHYS 232: Introductory Physics II ^{S*} CHEM 232: General Chemistry II ^S ENGW 103: Writing AHS 101: Wellness (2) Spring Semester 2 MATH 331: Vector Calculus (2)* MATH 331: Vector Calculus (2)* MATH 333: Differential Equations* BITH or ARCH 213: New Testament COMM 101: Oral Communication (2) Advanced Integrative Seminar ² * Spring Semester 3 IIT BME 315: Instrumentation & Measurement Laboratory (2) ³ IIT BIOL 115: Human Biology (3) ³ IIT BIOL 117: Human Biology Lab (1) ³ ENGR 394: Ethics Capstone (2) ^{5*} Thematic Core Course (8) ² Visual & Performing Arts (2) ² mpletion at Illinois Tech. Spring Semester 4 BIOL 403: Biochemistry BME 301: Bio-fluid Mechanics (3) BME 310: Bio Materials (3) BME 320: Fluids Laboratory (1) BME 335: Thermodynamics of Living Systems (3)

Notes or Special Guidance for Majors:

*Course has prerequisite

- ^F Fall only course
- ^s Spring only course
- [#] Offered every other year

¹ Classes that meet CATC Thematic Core tags: MATH 231 (AAQR), PHYS 231 (SP). Engineering majors should use the <u>Engineering checklist</u> for CATC.

² Engineering majors should carefully select CATC Thematic Core courses. In addition to the Themes already covered with required courses (AAQR and SP, see footnote 1), Social Inquiry (SI) and the Visual and Performing Arts (VPA or 2 of VPAV/VPAM/VPAT) must be taken. 4 of the 5 remaining themes must also be taken by Engineering majors. See the Engineering checklist for the full CATC requirements. Double tagged courses are strongly encouraged.

³ These courses are taken in partnership with Illinois Tech while finishing Wheaton requirements.

-All Engineering MAPs are also located on the <u>Engineering Department webpage</u>. Please contact the Engineering Coordinator, Jeff Yoder with questions. He can be reached at <u>jeff.yoder@wheaton.edu</u>.