

Sample Biomedical Informatics Program Schedule

3+2 Curriculum for B.S. in Computer Science and M.S. in Biomedical Informatics [clinical informatics track]

Required of students admitted to the CS program Fall 2018 and later

	Fall	Winter	Spring
Year 1	<ul style="list-style-type: none"> CS 162 Intro. to Computer Science (4) Mth 251 Calculus I (4) Laboratory Science: CH 221+CH 227 General Chemistry I and Lab (5) Freshman Inquiry (5) 	<ul style="list-style-type: none"> CS 163 Data Structures (4) Mth 252 Calculus II (4) Laboratory Science: CH 222+CH 228 General Chemistry II and Lab (5) Freshman Inquiry (5) 	<ul style="list-style-type: none"> CS 202 Programming Systems (4) Mth 253 Calculus III (4) Laboratory Science: CH 223+CH 229 General Chemistry III and Lab (5) Freshman Inquiry (5)
Year 2	<ul style="list-style-type: none"> CS 201 Computer Systems Programming (4) CS 250 Discrete Structures I (4) Bio 301 Human Anatomy & Physiology I (4) Sophomore Inquiry (4) 	<ul style="list-style-type: none"> CS 251 Discrete Structures II (4) Bio 302 Human Anatomy & Physiology II (4) Sophomore Inquiry (4) 	<ul style="list-style-type: none"> ECE 341 Intro. to Computer Hardware (4) Bio 303 Human Anatomy & Physiology III (4) Sophomore Inquiry (4)
Year 3	<ul style="list-style-type: none"> CS 300 Elements of Software Engineering (4) CS 333 Intro. to Operating Systems (4) CS305 Social, Ethical, & Legal Implications of Computing (2) Upper-division cluster (4) 	<ul style="list-style-type: none"> CS 320 Programming Languages (4) CS 350 Algorithms and Complexity (4) CS 486 Intro. to Databases (4) Upper-division cluster (4) 	<ul style="list-style-type: none"> Approved upper-division programming intensive CS elective (4) Approved upper-division CS elective (4) Approved upper-division CS elective (4) Upper-division cluster (4)
Year 4	<ul style="list-style-type: none"> Approved upper-division CS elective (4) CS 469 Software Engineering Capstone I (3) BSTA 525 Intro. to Biostatistics (4/App Math Elective) BMI 510 Intro. to Biomedical Informatics (3) 	<ul style="list-style-type: none"> Approved upper-division CS elective (4) CS 470 Software Engineering Capstone II (3) BMI 560 Design and Evaluation in Health Informatics (3) BMI 517 Organizational Behavior and Management (3) Biomedical Informatics Individual Competency Course [3/CS UD Elective] 	<ul style="list-style-type: none"> BMI 570 Scientific Writing & Communication for Informatics (3/WR227) BMI 562 Quantitative Research Methods (3/App Math Elective) (offered in odd numbered years only) BMI 576 Managing Ethics in Biomedical Informatics (3)
Year 5	<ul style="list-style-type: none"> BMI 530 Practice of Health Care (3) Approved BMI Elective (3) Approved BMI Elective (3) BMI 503 Master's Thesis (4) 	<ul style="list-style-type: none"> Approved BMI Elective (3) BMI 518 Project Management (3) Healthcare Individual Competency Course (3) BMI 503 Master's Thesis (4) 	<ul style="list-style-type: none"> Approved BMI Elective (3) Approved BMI Elective (2) BMI 503 Master's Thesis (4)

Courses in red are used to meet the requirements of both programs.