

FSU Biomedical Engineering - Imaging

* Course Pre-requisites
+ Course Co-requisites

* Semester(s)
course is offered

Please note that major courses are not offered every semester

Year	Course	Prerequisites	Credits	Offering
FRESHMAN	_ CHM 1045/1045L General Chemistry I w/ Lab (3/1) *C- or better in MAC 1105		(3)	Fall, Spring, Summer
	_ MAC 2311 Calculus I (4) *C- or better in MAC 1140 and MAC 1114		(4)	Fall, Spring, Summer
	_ ENC 1101 English I (3)		(3)	Fall, Spring, Summer
	_ EGN 1004L First Year Engineering Lab (1)		(1)	Fall, Spring, Summer
	_ CHM 1046/1046L General Chemistry II with Lab (3/1) *C- or better in CHM 1045		(3)	Fall, Spring, Summer
	_ MAC 2312 Calculus II (4) *C- or better in MAC 2311		(4)	Fall, Spring, Summer
	_ ENC 2135 English II (3)		(3)	Fall, Spring, Summer
	BSC 2010 Biological Science I (3)		(3)	Fall, Spring, Summer
SOPHOMORE	CHM 2210 or CHM 3217 Organic Chemistry I or One-Semester Organic (3) *C- or better in CHM 1046		(3)	Fall, Spring, Summer
	MAC 2313 Calculus III (5) *C- or better in MAC 2312		(5)	Fall, Spring, Summer
	ECH 3023 Mass & Energy Balances I (3) *MAC 2312, CHM 1046 +CHM 2210, MAC 2313, PHY 2048C		(3)	Fall, Spring
	PHY 2048C Gen. Physics A with Lab (5) *C- or better in MAC 2311		(5)	Fall, Spring, Summer
	CHM 2211 Organic Chemistry II or BCH 3023 if student takes CHM 3217 (3) *C- or better in CHM 2210		(3)	Fall, Spring, Summer
	ECH 3301 Process Analysis & Design (4) *C- or better in MAC 2312 +ECH 3023, MAC 2313		(4)	Fall, Spring, Summer
	ECH 3024 Mass & Energy II (4) *CHM 2210, MAC 2313, PHY 2048C, ECH 3023 +ECH 3301, PHY 2049C, BSC 2010		(4)	Spring, Summer
	PHY 2049C Gen. Physics B with Lab (5) *PHY 2048C, MAC 2312		(5)	Fall, Spring, Summer
JUNIOR	BME 3622 Biothermodynamics (3) *ECH 3024, ECH 3301, PHY 2049C, BME 3009 +BME 3702, BME 3361, BME 4403C		(3)	Fall
	BME 3702 Biocomputations (4) *ECH 3024, ECH 3301, PHY 2049C, BME 3009, CHM 2210 +BME 3622, BME 3361, BME 4403C		(4)	Fall
	BME 3361 Biotransport Phenomena (3) *ECH 3024, ECH 3301, PHY 2049C, BME 3009 +BME 3702, BME 3622, BME 4403C		(3)	Fall
	BME 4403C Quantitative Anatomy and Sys. Phys. I (QASP) (3) *BME 3009, ECH 3024, ECH3301, PHY 2049C + BME 3702, BME 3361, BME 3622		(3)	Fall
	_ BME 3100 Biomaterials (3) *BME 3622, BME 3361, BME 3702, BME 4403C +BME 4211, BME 4503, BME 4503L, BME 4404C		(3)	Spring
	_ BME 4211 Biomechanics (3) *BME 3702, BME 3622, BME 3361 +BME 3100, BME 4503, BME 4503L, BME 4404C		(3)	Spring
	_ BME 4404C QASP II (3) *ECH3 301, BME 3361, BME 3702, BME 4403C +BME 4503, BME 4503L		(3)	Spring
	_ BME 4503 Bioinstrumentation (3) *BME 3702, BME 4403C +BME 4404C		(3)	Spring
_ BME 4503L Bioinstrumentation Lab (1) *BME 3702, BME 4403C		(1)	Spring	
SENIOR	_ BME 4531 Medical Imaging (3) *BME 3702, BME 4503, BME 4503L, BME 4404C +BME 4531L		(3)	Fall
	_ BME 4531L Medical Imaging Lab (1) *BME 3702, BME 4503, BME 4503L, BME 4404C +BME 4531		(1)	Fall
	_ BME 4801 BME Design I (3) *BME 3100, BME 4211, BME 4503, BME 4503L, BME 4404C		(3)	Fall
	BME 4508 Biosignals & Systems (3) *BME 3702, BME 4503, BME 4503L		(3)	Fall
	BME XXXX BME Senior Elective (3) *Senior standing		(3)	Fall, Spring
	_ BME 4744C Biodynamics and Sys. Cont. (4) *BME 3702, BME 4211, BME 4503		(4)	Spring
	BME 4802 BME Design II (3) *BME4801; BME 4332 or BME 4508 depending on major pathway		(3)	Spring
	BME XXXX BME Senior Elective (3) *Senior standing		(3)	Fall, Spring

LIBERAL STUDIES
*Requirements in gray not required for students with AA

Statewide Social Science or History:
ANT2000, ECO2013, POS1041, PSY2012, SYG1000, AMH 2020 (3)

Statewide Humanities or Ethics:
ARH2000, HUM2020, LIT2000, MUL2010, THE2000, PHI 2010 (3)

Scholarship in Practice/ Formative Exp.: BME 4801/4802 (6)

Upper-Division Writing: BME 4801 (3)

Computer Competency: BME 3702 (4)

Oral Comm. Competency: BME 4801 (3)

General Education Electives
1 _____ (3)
2 _____ (3)

History _____ (3)
Social Science _____ (3)
Ethics _____ (3)
Civic Lit Course _____ (3)
Civic Lit Exam _____ (3)

BME 3009
Intro to Biomedical Engineering
(3)
*BSC 2010, MAC 2312, PHY 2048C
+ECH 3024, ECH 3301, MAC 2313,
PHY 2049C

Name _____

Student ID _____

E-mail _____

Current GPA _____ Date _____

Major _____

- Graduation Requirements**
- _ C grade or above in all ECH and BME major courses
 - _ 2.0 Major GPA
 - _ 2.0 Overall GPA
 - _ 128 total credit hours
 - _ AA or General Education Requirements
 - _ Summer Residency Requirement or waiver
 - _ Completion final 30 degree hours at FSU