

ENGINEERING CONCENTRATIONS (*select one*)**Computer Graphics (34)**

CSC/CPE 101 Fundamentals of Computer Science	4
CSC/CPE 123 Introduction to Computing	4
CSC/CPE 202 Data Structures	4
CSC/CPE 203 Prj-Based Obj-Orien Prgrm and Design	4
CSC 225 Introduction to Computer Organization	4
CSC 303 Teaching Computer Science	2
CSC 348 Discrete Structures	4
CSC/CPE 357 Systems Programming	4
CSC/CPE 471 Introduction to Computer Graphics	4

Electrical Engineering (Power) (34)

EE 111 Introduction to Electrical Engineering	1
EE 151 Introduction to Electrical Engineering Laboratory	1
EE 112 Electric Circuit Analysis I	2
EE 211 Electric Circuit Analysis II	3
EE 241 Electric Circuit Analysis Laboratory II	1
EE 212 Electric Circuit Analysis III	3
EE 242 Electric Circuit Analysis Laboratory III	1
EE 255 Energy Conversion Electromagnetics	3
EE 295 Energy Conversion Electromagnetics Laboratory	1
EE 335 Electromagnetic Fields and Transmission	4
EE 375 Electromagnetic Fields and Transmission Laboratory	1
EE 406 Power Systems Analysis I	4
EE 407 Power Systems Analysis II	4
EE 444 Power Systems Laboratory	1
Advisor approved power technical elective	4

Industrial/ Manufacturing Engineering - System Design (34-35)

IME 101 Intro to Industrial and Manufacturing Engineering	1
IME 223 Process Improvement Fundamentals	4
IME 239 Industrial Costs and Controls	3
IME 301 Operations Research I	4
IME 303 Project Organization and Management	4
IME 314 Engineering Economics	3
IME 319/ IME 320 (IME 320 - Area B7)	3-4
IME 326 Engineering Test Design and Analysis	4
IME 420 Simulation	4
IME 443 Facilities Planning and Design	4

Usability Studies (34)

CSC/CPE 101 Fundamentals of Computer Science	4
CSC/CPE 202 Data Structures	4
CSC/CPE 203 Prj-Based Obj-Orien Prgrm and Design	4
CSC 225 Introduction to Computer Organization	4
CSC 303 Teaching Computer Science	2
CSC 307 Introduction to Software Engineering	4
CSC 348 Discrete Structures	4
CSC/CPE 357 Systems Programming	4
CSC 484 User-Centered Interface Design and Development	4

Individualized Course of Study (34)

Consists of 34 units of an advisor-approved integrated course of study from courses offered in the College of Engineering designed to meet the LAES learning objectives, with at least 12 of the units at the upper division level. Courses must be drawn from at least two engineering disciplines.

LIBERAL ARTS CONCENTRATIONS (*select one*)**Interactive Communication-Cinematic Focus (24)**

TH 210 Introduction to Theatre (C3) ¹	4
ENGL 371 Film Styles and Genres (C4) ¹	4
ENGL 411 New Media Arts I	4
Approved Electives	12
<i>Select from the following:</i> COMS 311, 384 (D5), 385; ENGL 372, 412; POLS 470	

Interactive Communication-Theatrical Focus (24)

TH 210 Introduction to Theatre (C3) ¹	4
TH 227/228 Theatre History	4
ENGL 411 New Media Arts I	4
Approved Electives	12
<i>Select from the following:</i> ² ENGL 412; ISLA 320 (C4); TH 220, 230, 330, 360 (C4), 390 (C4), 430, 434	

Publishing Technology (24)

GRC 101 Intro to Graphic Communication	3
GRC 201 Digital Publishing System	3
GRC 211 Materials for GRC Applications	4
ISLA 303 (C4)/ PHIL 341 (C4)/ PHIL 337 (C4) ¹	4
Approved Electives	10
<i>Select from the following:</i> COMS 317; GRC 316, 328, 329, 402	

Technical Communication (24)

COMS 317 Technology and Human Communication	4
ENGL 317 Technical Editing	4
ENGL 319 Information Design and Production	4
Approved Electives	12
<i>Select from the following:</i> COMS 213, 301; ENGL 310; ISLA 303 (C4); PHIL 337 (C4) or 341 (C4)	

Individualized Course of Study (24)

Consists of 24 units of an advisor-approved integrated course of study from courses offered in the College of Liberal Arts designed to meet the LAES learning objectives, with at least 12 of the units at the upper division level. Students may complete a minor program selected from pre-approved minors. These minors include any minor offered by the College of Liberal Arts, as well as interdisciplinary, cross-college minors in which students complete a minimum of half of the units in the College of Liberal Arts (e.g., Indigenous Studies in Natural Resources & the Environment; Sustainable Environments).

¹ Required in concentration; also satisfies GE

² No more than one lower division course