BA: Liberal Arts and Engineering Studies (LAES)

2017-2019 CONCENTRATION and STUDY ABROAD DECLARATION

Consult the 2017-19 Catalog for degree requirements. Use BLACK INK ONLY. ☐ **Revision**

Student Name: _____ **ID#**: _____ **Date**: _____

Career Objective: _____ **Expected Grad Term**: _____

Important Note: This form must be submitted at the time of entry into the LAES Program. Before submission, an LAES Director must approve all courses. A revision should be submitted (if necessary) FOUR QUARTERS PRIOR to graduation along with a graduation check with the LAES advisor. Failure to meet this requirement may delay degree issuance. Form Instructions: Mark an X to select ONE Engineering Concentration OR list ICS courses. Mark an X to select ONE Liberal Arts Concentration OR list ICS courses. List Study Abroad/Global Perspectives courses. List electives and/or substitutions as necessary. Mark the REVISION box if this replaces a previous submission. Sign and date, meet with an LAES Director to obtain approval signature, then return completed form to the LAES Program Office in Bldg. 47, Room 34G.

ENGINEERING CONCENTRATION – 34 units (8 units must be at the 300-400 level)

☐ IME (SYSTEM DESIGN)–34-35 UNITS

IME 101	Intro to Industrial/Manufacturing Eng	1
IME 223	Process Improvement Fundamentals	4
IME 239	Industrial Costs and Controls	3
IME 301	Operations Research I	4
IME 303	Project Organization & Management	4
IME 314	Engineering Economics	3
IME 319	Human Factors Engineering	3/4
OR IME 320	Human Factors, Technology (Area F)[1]	
IME 326	Engineering Test Design and Analysis	4
IME 420	Simulation	4
IME 443	Facilities Planning and Design	4

List Substitutions Here:

Above #	Substitute	Above #	Substitute

☐ ELECTRICAL ENGINEERING (POWER)–34 UNITS

EE 111/151	Intro to Electrical Engineering/Lab	1/1
EE 112	Electric Circuit Analysis I	2
EE 211/241	Electric Circuit Analysis II/Lab	3/1
EE 212/242	Electric Circuit Analysis III/Lab	3/1
EE 255/295	Energy Conversion Electromagnetic/Lab	3/1
EE 335/375	Electromagnetic Fields & Trans/Lab	4/1
EE 406	Power Systems Analysis I	4
EE 407/444	Power Systems Analysis II/Lab	4/1
Advisor Approved Power Technical Elective		4

List Elective Course # Here: _____

List Substitutions Here:

Above #	Substitute	Above #	Substitute

☐ COMPUTER GRAPHICS–34 UNITS

CSC/CPE 101	Fundamentals of Computer Science I	4
CSC/CPE 202	Data Structures	4
CSC/CPE 203	Prj-Based Obj-Orien Prgmg and Design	4
CSC/CPE 123	Introduction to Computing	4
CSC 225	Intro 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

List Substitutions Here:

Above #	Substitute	Above #	Substitute

☐ USABILITY STUDIES–34 UNITS

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

List Substitutions Here:

Above #	Substitute	Above #	Substitute

LIBERAL ARTS CONCENTRATION – 24 units (12 units must be at the 300-400 level)

☐ INTERACTIVE COMMMUNICATION (CINEMATIC FOCUS)–24 UNITS

ENGL 371	Film Styles and Genres (C4)[1]	4
ENGL 411	New Media Arts I	4
TH 210	Introduction to Theatre (C3)[1]	4
Approved Electives—select from the following:		12

COMS 311, COMS 385, COMS 419, ENGL 372, ENGL 412, POLS 470

List Substitutions Here:

Above #	Substitute	Above #	Substitute

☐ INTERACTIVE COMMUNICATION (THEATRICAL FOCUS)–24 UNITS

ENGL 411	New Media Arts I	4
TH 210	Introduction to Theatre (C3)[1]	4
TH 227	Theatre History I	4
OR TH 228	Theatre History II	
Approved Electives—select from the following:[2]		12

ENGL 412, ISLA 320, TH 220,TH 230, TH 330,TH 360, TH 390, TH 430, TH 434

List Substitutions Here:

Above #	Substitute	Above #	Substitute

☐ PUBLISHING TECHNOLOGY–24 UNITS

GRC 101	Intro to Graphic Communication	3
GRC 201	Digital Publishing Systems	3
GRC 211	Substrates, Inks and Toners	4
ISLA 303	Values and Technology (C4)[1]	4
OR PHIL 341	Professional Ethics	
OR PHIL 337	Business Ethics	
Approved Electives—select from the following:		10

COMS 317, GRC 316, GRC 328, GRC 329, GRC 402

List Substitutions Here:

Above #	Substitute	Above #	Substitute

☐ TECHNICAL COMMUNICATION–24 UNITS

COMS 317	Technology & Human Communication	4
ENGL 317	Technical Editing	4
ENGL 319	Information Design and Production	4
Approved Electives—select from the following:		12

COMS 213, COMS 301, ENGL 310, ISLA 303, PHIL 337 OR PHIL 341

List Substitutions Here:

Above #	Substitute	Above #	Substitute

[1] *Required in Major; also satisfies GE*

[2] *No more than one lower division course*

INDIVIDUALIZED COURSE OF STUDY

(Mark an X to select an ICS INSTEAD of a concentration)

☐ *ENGINEERING ICS–34 UNITS*

Note: If a pre-defined Concentration does NOT meet your career objective, list 34 units (12 at the 300-400 level). Courses must be from at least two engineering disciplines.

Course #	Course Title	Units

☐ *LIBERAL ARTS ICS–24 UNITS*

Note: If a pre-defined Concentration does NOT meet your career objective, list 24 units (12 at the 300-400 level). You may complete a pre-approved liberal arts, interdisciplinary or cross-college minor, with half of the units from the CLA.

Course #	Course Title	Units

STUDY ABROAD OR GLOBAL PERSPECTIVES—8 UNITS

Note: LAES requires a combined 8 units of Study Abroad or Global Perspectives. If upper-division GE courses or lower-division Study Abroad courses are used in this section, additional upper- or lower-division units may be needed to meet university requirements.

Course #	Course Title	Units

SIGNATURE APPROVALS

_____

Student Signature Date

_____

Approved By (Print Name)

_____

Approver Signature Date