DEGREE REQUIREMENTS *
BACHELOR OF SCIENCE IN COMPUTER SCIENCE (CSE) – CATALOG 2014 AND LATER
DEPT OF COMPUTER AND INFORMATION SCIENCE AND ENGINEERING
COLLEGE OF ENGINEERING, UNIVERSITY OF FLORIDA

GENERAL EDUCATION (18)***

Composition (includes ENC 3246)........................................3
Social and Behavioral*.......................................................6-9

Humanities*(includes IUF 1000).................................6-9
International and Diversity**..............................................6

* Both categories combined must total 15 hours with no fewer than 6 hours taken in either category (i.e. 6 in one, 9 in other).
**Courses selected will also fulfill the General Education requirement in Social and Behavioral (S) or Humanities (H).
***The Mathematics, Physical Sciences, and Biological Sciences requirements are covered by the departmental requirements below.

DEPARTMENTAL REQUIREMENTS

Mathematics (18)

MAC 2311 Analytic Geometry & Calculus 1 .....................4
MAC 2312 Analytic Geometry & Calculus 2 .....................4
MAC 2313 Analytic Geometry & Calculus 3 .....................4
MAS 3114 Comp. Linear Algebra (Cal 2) .........................3
STA 3032 Engineering Statistics (Cal 1) .........................3

Physics (8)

PHY 2048 Physics w/Cal 1 (HS Physics, Cal 1; Cal 2, PHY2048L) 3
PHY 2048L Lab for PHY 2048 (PHY 2048) .........................1
PHY 2049 Physics w/Cal 2 (PHY 2048; Cal 3, PHY 2049L) ...3
PHY 2049L Lab for PHY 2049 (PHY 2049) .........................1

Chemistry (4)

CHM 2045 Gen Chemistry (CHM 1025; pass chem. readiness) 3
CHM 2045L Lab for CHM 2045 (CHM 2045) .......................1

Communications (6)

ENC 3246 Professional Communications for Engineers ....3
Additional Writing/Public Speaking course (approved list) ...3

Interdisciplinary Electives (14) (choose one option)

Option A*: 14 credits toward formal minor and not counting for other requirements: completion of minor not required if it exceeds 14 credits.
   * If completed minor contributes less than 14 credits to ID Electives, remaining credits can be fulfilled with additional 3K coursework in the area of the minor or with CISE technical electives.

Option B: 14 credits in concentration area outside of CISE at 3000-level or higher (advisor approval required).

Option C: 14 credits from Engineering Leadership Courses (EGN/S 4038, 4641, 4643), coupled with similar courses approved by advisor.

Computer Science Major Courses (39)

COP 3502 Prog. Fundamentals 1 (MAC 2311) ...................3
COP 3503 Prog. Fundamentals 2 (MAC 2311, COP 3502) ....3
COT 3100 App. of Discrete Structures (MAC 2311, COP 3503) 3
COP 3530 Data Struct & Algorithms (COP 3503, COT 3100, Cal 2) 4
CDA 3101 Intro to Comp Organization (Cal 1, COP 3503) ....3
CEN 3031 Intro to Software Engineering (COP 3503) .........4
COT 4501 Numerical Analysis (COP 3504/03, MAS3114) ....3
OR MAD 4401 Int. Num. Anly. (MAS 3114) *if Math minor ..3
COP 4600 Operating Systems (COP 3503, CDA 3101) .......3
CNT 4007C Comp. Network Fund. (COP 4600) ..................4
CIS 4914 Sr. Project or CIS 4913C-IPPD 2 (4EG) .............3
CIS 4301 Info & DB Sys Dsgn & Dev 1 (COP 3503, COT 3100) ....3
EEL 3701C Digital Logic & Computer Systems (COP 3503) ....4
OR MAD 4401 Int. Num. Anly. (MAS 3114) *if Math minor ..3
COP 4600 Operating Systems (COP 3503, CDA 3101) .......3
CNT 4007C Comp. Network Fund. (COP 4600) ..................4
CIS 4914 Sr. Project or CIS 4913C-IPPD 2 (4EG) .............3
CIS 4301 Info & DB Sys Dsgn & Dev 1 (COP 3503, COT 3100) ....3
EEL 3701C Digital Logic & Computer Systems (COP 3503) ....4

Ethics (1)

EGS 4034 Professional Ethics (4EG+) ...............................1
OR CGS 3065 Legal & Social Issues in Computing (F) ........3

Technical Electives (15*) - 11 hrs must be CISE courses

ANY 4000-level CISE course (see current course sched.) ....3
CIS 4930 Special Topics ....................................................3
EGN 4912 Engineering Undergraduate Research ............1-3
CIS 4940 Internship (advisor approval) .........................1
CIS 4949 Co-op (advisor approval) .................................1
EIN 4354 Engineering Economy ......................................3

*The above list includes categories of courses and is not exhaustive, nor are all courses always offered. Electives also may be:
1) Any 4000-level or higher ECE or PHY course not taken to fulfill some other requirement, excluding EEL 3003, EEL 4834, and most CGS courses.
2) MAP 2302 or any 4000-level math or statistics course with the prefix STA, MAA, MAD, MAP, MAS or MHF not taken to fulfill any other requirement with the following exceptions:
   - Take only one of these: COT 3100, MAD 4203, or MAD 3107.
   - Take only one of these: COT 4501 and MAD 4401
   - Take only one of these: COT 4420 and MAD 4504
3) Students may take up to two (2) 3000-level CAP courses
4) Students may take up to one (1) of the following: EGN/S 4038, 4641, or 4643.

**At most, 3 credits of a programming language course may count towards technical elective credit. See Advisor for approval.

NOTES:

Students must complete all Critical Tracking (bold) courses with a C or better within two attempts (W counts as an attempt) within 5 semesters, while maintaining a 2.5 tracking GPA. Must maintain UF and CISE GPA of 2.0.

ENC 3246, EEL 3701C, and COP 3503 must be completed with a C or better. A grade of C- or lower will not fulfill degree requirements.

A minimum grade of C is required in all other courses that are prerequisites to a required course: CDA 3101, COP 3503, COP 3530, COP 4600, COT 3100 and MAS 3114.

Students who do not meet requirements above will be placed on academic probation and will be required to sign a probation contract with a CISE advisor. Students are normally given two terms to raise gpa’s or remove their deficit points; however, students who do not satisfy the conditions of the first term of probation may be dismissed from the department.

Courses in parenthesis are prerequisites; underlined courses are co-requisites.

An Exit Interview is required during final semester. Please see an academic advisor for details.

CGS 3065 will count for both the Ethics requirement and 3 hrs of Technical Elective.

*Minimum Total Hours ..............................................................................................................120

Rev Fall 2016 - This document is intended to be used only as a counseling guide. Graduation requirements are more completely specified in the UF Undergraduate Catalog.