

Computer Science Programs

B.A. Degree in Computer Science (CSC)

B.A. in CSC Advising Flowchart

GENERAL EDUCATION

- Students must take 3 credit hours of Social Science (subject to the criteria in note 2)
- Students must take 3 credit hours of Social Science or Natural Science elective (subject to the criteria in note 4)
- Students must take 3 credit hours of Arts (subject to the criteria in note 5)
- Students must take 3 credit hours of U.S. History or Government (subject to the criteria in note 7)
- Students must take 3 credit hours of a Non-Literature / Non-Arts elective (subject to the criteria in note 8)
- Students must take 3 credit hours of a Human Cultures elective (subject to the criteria in note 9)
- Students must take at least 3 credit hours of additional General Education electives (subject to the criteria in note 10)
- Students must take 6 credit hours of Human Diversity courses (these courses are allowed to satisfy other GE requirements as well – some courses do, but others do not, depending upon the course – see note 11)
- The General Education Math requirement is covered by the Math 24100
- The General Education Natural Science w/ Lab requirement is covered by the PHY 30100 requirement
- The General Education Social Science, Natural Science, or Math elective is covered by MTH 27100
- One of the General Education Electives is covered by MTH 27200

ENGLISH REQUIREMENTS

[9 Credit Hours]

- Students must have a grade of C or higher in ENG 15000 and ENG 17000
- Students must take 3 credit hours of English Literature (subject to the criteria of note 6)

ENG/EPP 15000 †
Strat. for Univ. Writing
3 cr. Fa/Sp
Grade: _____

ENGL 17000
Rsrch. & Argumentation
3 cr. Fa/Sp
Grade: _____

ENGL
English Literature
3 cr. (see Note 6) Fa/Sp
Grade: _____

ENG 11000 * / EPP 11000 *
3 cr. (Gen. Elect.) Fa/Sp
Grade: _____

EPP 10600 *
6 cr. (Gen. Elect.) Fa/Sp
Grade: _____

EPP 10500 *
6 cr. (Gen. Elect.) Fa/Sp
Grade: _____

EPP 10100 *
3 cr. (Gen. Elect.) Fa/Sp
Grade: _____

General Elective
___ cr. Fa/Sp
Grade: _____

Gen. Elective 30000+
3 cr. Fa/Sp
Grade: _____

Gen. Elective 30000+
3 cr. Fa/Sp
Grade: _____

Gen. Elective 30000+
3 cr. Fa/Sp
Grade: _____

LNO 10100
Freshmen Experience
___ cr. (see Note 12) Fa/Sp
Grade: _____

General Elective
___ cr. Fa/Sp
Grade: _____

General Elective
___ cr. Fa/Sp
Grade: _____

General Elective
___ cr. Fa/Sp
Grade: _____

General Elective
___ cr. Fa/Sp
Grade: _____

General Elective
___ cr. Fa/Sp
Grade: _____

Gen. Elective 30000+
3 cr. Fa/Sp
Grade: _____

Gen. Elective 30000+
3 cr. Fa/Sp
Grade: _____

COMPUTER SCIENCE REQUIREMENTS

Major Courses

(60 Credit Hours)

- Students must have a grade of C or higher in all major courses

CSC 10011/10022
Introduction to CS
3 cr. Fa/Sp
Grade: _____

CSC 14400
Computer Science 1
4 cr. Fa/Sp
Grade: _____

CSC 24400
Computer Science 2
4 cr. Fa/Sp
Grade: _____

CSC 30500
Database
3 cr. Fa
Grade: _____

CSC 43000
Senior Project
3 cr. Sp
Grade: _____

CSC 44700
Proj. Mgmt. & Practice
3 cr. Sp
Grade: _____

CSC 45100
Coop I
3 cr. (Junior & 3.0 GPA Req.)
Grade: _____

CSC 45111
Internship I
3 cr. (Junior & 3.0 GPA Req.)
Grade: _____

CSC 25500
Assembly
3 cr. Fa
Grade: _____

CSC 36000
Data Structures
3 cr. Sp
Grade: _____

CSC 40300
Computer Architecture
3 cr. Fa
Grade: _____

CSC 40600
Operating Systems
4 cr. Sp
Grade: _____

CSC 48000
Telecomm. / Networks
3 cr. Sp
Grade: _____

CSC 409xx
Special Topics
3 cr. Interm. Sp. (Pre-Req's Apply)
Grade: _____

CSC 409xx
Special Topics
3 cr. Interm. Sp. (Pre-Req's Apply)
Grade: _____

COM 33400
Web Design
3 cr. Fa/Sp (Pre-Req's Apply)
Grade: _____

CSC 40300
Computer Architecture
3 cr. Fa
Grade: _____

CSC 40600
Operating Systems
4 cr. Sp
Grade: _____

CSC 48000
Telecomm. / Networks
3 cr. Sp
Grade: _____

CSC 409xx
Special Topics
3 cr. Interm. Sp. (Pre-Req's Apply)
Grade: _____

MIS 44020
Info. Sys. Anal. & Design
3 cr. Interm. (Pre-Req's Apply)
Grade: _____

COM 42400
Appl. for Mobile Devices
3 cr. Interm. (Pre-Req's Apply)
Grade: _____

GENERAL ELECTIVES

- Total credit hours must be ≥ 120
- Students must take enough general electives to reach a minimum of 120 credit hours
- Students must take 15 credit hours of general electives at the 30000-level or above in order to meet the requirement of at least 42 credit hours at or above the 30000-level

MTH 11000 ‡
Interm. Algebra
3 cr. (Gen. Elect.) Fa/Sp
Grade: _____

MTH 15100 ‡
College Algebra
3 cr. (Gen. Elect.) Fa/Sp
Grade: _____

MTH 15200 ‡
Pre-Calculus
3 cr. (Gen. Elect.) Fa/Sp
Grade: _____

MTH 27100 ‡
Calculus I
5 cr. Fa/Sp
Grade: _____

MTH 27200
Calculus II
5 cr. Fa/Sp
Grade: _____

MTH 28500
Intro. To Adv. Math
3 cr. Sp
Grade: _____

MTH 22100 <
Discrete Structures
3 cr. Fa
Grade: _____

MTH 24100 <
Stats. For Nat. Science
3 cr. Fa/Sp
Grade: _____

MATH REQUIREMENTS

SCIENCE REQUIREMENTS

PHY 30100
General Physics I
4 cr. Fa/Sp
Grade: _____

Human Diversity 1
3 cr. (see Note 11) Fa/Sp
Grade: _____

Human Diversity 2
3 cr. (see Note 11) Fa/Sp
Grade: _____

Social Science
3 cr. (see Note 2) Fa/Sp
Grade: _____

U.S. Hist. / Government
3 cr. (see Note 7) Fa/Sp
Grade: _____

Soc. Sci. / Nat. Sci. Elect
3 cr. (see Note 4) Fa/Sp
Grade: _____

Non-Lit./Non-Arts Elect.
3 cr. (see Note 8) Fa/Sp
Grade: _____

Arts
3 cr. (see Note 5) Fa/Sp
Grade: _____

Human Cultures Elect.
3 cr. (see Note 9) Fa/Sp
Grade: _____

GE Elective 1
3 cr. (see Note 10) Fa/Sp
Grade: _____

COMPUTER SCIENCE ELECTIVES

- You must take 3 credit hours of 30000-level or 40000-level Computer Science Electives (subject to the criteria in note 1)

Notes for Program Advising Flowcharts

- † Placement into ENG 15000 is through: 1) Passing Writing Proficiency Placement Exam, or 2) Completion of ENG/EPP 11000
◁ Placement into MTH 15200/24100/22100 is through: 1) Passing the Math Placement Exam, or 2) prior completion of MTH 15100
‡ Placement into MTH 27100 is through: 1) Passing the Math Placement Exam, or 2) Completion of MTH 15200

Requirement 1: A minimum total of 120 credit hours of coursework is required for graduation.

Requirement 2: A minimum total of 42 credit hours of coursework at or above the 30000 level is required for graduation.

Requirement 3: Students must complete 42 credit hours of GENERAL EDUCATION courses.

- The General Education Math requirement is covered by MTH 24100 (CSC degrees) or MTH 14100 (CIS degree)
- For the CSC Degrees, the General Education Science w/ Lab requirement is covered by PHY 30100
- For the BS in CSC Degree, The General Education Social Science or Natural Science elective is covered by PHY 30200
- The General Education Social Science, Natural Science, or Math elective is covered by MTH 27100 (CSC degrees) or MTH 15100 (CIS degree)
- For the CSC Degrees, one of the General Education Electives is covered by MTH 27200

Note 1: CSC Program Electives must be chosen from one of the following:

CSC 40500, CSC 40800, CSC 409xx, CSC 45100, CSC 45111, CSC 45200, CSC 45211, CSC 44700, CSC 48000, COM 33400, COM 42400, MIS 44020

CIS Program Electives must be chosen from one of the following:

CSC 25500, CSC 40300, CSC 40500, CSC 40600, CSC 40800, CSC 409xx, CSC 45100, CSC 45111, CSC 45200, CSC 45211, CSC 48000, COM 33400, COM 42400, MIS 44020

Note 2: Social Science Courses (if this requirement has already been fulfilled, these courses will also satisfy the General Education Electives requirements):

CJ 2000, ECON 23010, ECON 23020, ECON 23030, ECON 33035, PSY 10000, PSY 10100, REC 20600, SOC 10200, SOC 21400, SOC 22200, SW 24000

Human Diversity Social Science Courses:

ANT 10000, ANT 11200, ANT 32700, 33700

Note 3: Natural Science with Lab Courses (if this requirement has already been fulfilled, these courses will also satisfy the Social Science or Natural Science Elective, or the General Education Electives requirements):

ANT 13100, BSC 10000, BSC 11200, BSC 22700, BSC 24000, BSC 24400, CHM 10000, CHM 23100, CHM 23200, ESC 10000, ESC 11100, ESC 13100, ESC 13200, GEO 11500, HFS 20700, PHY 25100, PHY 25200, PHY 30100, PHY 30200

Note 4: Social Science or Natural Science Elective Courses (if this requirement has already been fulfilled, these courses will also satisfy the General Education Electives requirements):

all courses listed in Note 2, Note 3, and

BSC 10700, BSC 11000, BSC 11400, BSC 11500, BSC 12100, CHM 10100, CHM 10500, CHM 11100, CHM 19002, CHM 23000, ESC 10500, ESC 11000, ESC 11500, ESC 12000, ESC 13000, EXS 24000, PHY 11100, SCI 21400

Note 5: Arts (if this requirement has already been fulfilled, these courses will also satisfy the Human Cultures or the General Education Electives requirements):

MUS 15000, MUS 15500, MUS 16500, TA 10500, TA 11700, TA 31700

Human Diversity Arts Courses:

MUS 35500, MUS 35600, MUS 35700, TA 33500, TA 33600, TA 37100, TA 37200, TA 38701

Note 6: Literature Courses (if this requirement has already been fulfilled, these courses will also satisfy the Human Cultures or the General Education Electives requirements):

ENGL 20500, ENGL 20600, ENGL 23500, ENGL 23600, ENGL 28001, ENGL 28001, ENGL 28004, ENGL 28005, ENGL 30900, ENGL 33200, ENGL 33300, ENGL 33800, ENGL 33900, ENGL 34100, ENGL 34200, ENGL 34300, ENGL 34700, ENGL 35200, ENGL 35300, ENGL 35500, ENGL 35700, ENGL 35701, ENGL 38003

Human Diversity Literature Courses:

ENGL 20100, ENGL 20200, ENGL 25600, ENGL 27600, ENGL 27800, TA 33500, TA 33600

Notes for Program Advising Flowcharts

- Note 7: Human Diversity U.S. History / Government Courses (if this requirement has already been fulfilled, these courses will also satisfy the Non-Literature/Non-Arts, the Human Cultures, or the General Education Electives requirements):
HIST 11100, HIST 11200, HIST 11300, HIST 15500, HIST 21100, HIST 21200, HIST 21300, HIST 21400, HIST 21500, HIST 21600, PS 15500, PS 15600
- Note 8: Non-Literature, Non-Arts Elective Courses:
PHL 10200, PHL 14000, PHL 15000, PHL 17000, PHL 21400, PHL 21500, PHL 21600, PHL 24000, PHL 25000, PHL 26000, PHL 26500, PHL 28004, PHL 28005, PHL 30000, PHL 30500, PHL 31100, PHL 31200, PHL 31300, PHL 31800, PHL 32500, PHL 35000, REL 20100, REL 20200, REL 21000, REL 21100, REL 22200, REL 25100, REL 30000, REL 30500, REL 32000, REL 32600, REL 33000, REL 33500, REL 38002, REL 38005,
Human Diversity Non-Literature, Non-Arts Elective Courses:
all courses listed for Note 5
HIST 16200, HIST 26200, SPA 10100, SPA 10200, SPA 20100, SPA 20200, SPA 31100, SPA 31200, GER 10100, GER 10200, GER 20100, GER 20200, GER 31100, GER 31200, FRE 10100, FRE 10200, FRE 20100, FRE 20100, FRE 21000, FRE 31100, FRE 31200, FRE 34300, CHI 10100, CHI 10200, CHI 20100, CHI 20200, REL 15000, REL 23000, REL 24000, REL 30100, REL 31800
- Note 9: Human Cultures Elective Courses:
all courses listed for Note 3, all courses listed for Note 4, all courses listed for Note 5, all courses listed for Note 6
Additional Human Diversity Human Cultures Elective Courses:
ANT 31700, ANT 31800, ANT 32400, CJ 22500, COM 37000, COM 37600, CSP 20000, CSP 35000, CSP 35100, FRE 23000, FRE 33700, FRE 35000, FRE 35100, FRE 36000, FRE 40004, FRE 41000, FRE 41100, FRE 41200, FRE 41300, FRE 41400, GEO 10100, GEO 10300, GEO 20700, GEO 30100, GER 23000, GS 20101, HIST 16100, INTL 48070, IR 10000, IR 20000, IR 35000, PS 30000, PSY 29001, REC 21400, SOC 31800, SPA 31300, SPA 31400, SPA 32121, SPA 32123, SPA 32124, SPA 33700, SPA 19900, SPA 20300, SPA 23000, SPA 23700, SPA 29004, SPA 33500, SPA 33600, SPA 35000, SPA 35100, SPA 36400, SPA 41200, SPA 41300, SPA 41500, SPA 41600, SPA 41800, SPA 42000, SPA 42100, SPA 40000-40099
- Note 10: General Education Elective Courses:
all General Education designated courses, except ENGL/EPP 15000 and ENGL 17000
- Note 11: Human Diversity Courses:
all courses listed in Notes 2 – 9 which have a human diversity heading/label
- Note 12: Freshmen Experience Course:
All traditional undergraduate students who are first-time freshmen, and all transfer students with fewer than 24 credit hours of transferable credit who have not successfully completed a freshmen seminar course, must enroll in and complete a Freshman Experience course in their first semester at the University. Online freshman must complete LNO 10100 during their first semester of enrollment.