Computer Science Programs

B.A. Degree in Computer Information Systems (CIS)

Based upon 2017-2018 **B.A.** in CIS Advising Flowchart Undergraduate Catalog Soc. Sci. / Nat. Sci. Elect Human Diversity 1 Natural Science w/ Lab **GENERAL EDUCATION** 3 cr. (see Note 5) Fa/Sp ENG/EPP 15000 3 cr. (see Note 11) Fa/Sp 3 cr. (see Note 3) Fa/Sp 3 cr. (see Note 4) Fa/Sp **ENGL 17000** srch. & Argumentation • Students must take 3 credit hours of Natural Science with a Lab (subject to the criteria in note 3) Strat, for Univ. Writing Grade: Grade: Grade: Grade: • Students must take 3 credit hours of a Social Science or Natural Science elective (subject to the criteria in 3 cr. Fa/Sp 3 cr. Fa/Sp • Students must take 3 credit hours of Arts (subject to the criteria in note 5) Grade: Grade: • Students must take 3 credit hours of 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) **ENGLISH REQUIREMENTS** • Students must take 3 credit hours of a Human Cultures elective (subject to the criteria in note 9) Human Diversity 2 History / Government Non-Lit./Non-Arts Elect Human Cultures Elect. Students must take at least 6 credit hours of additional General Education electives (subject to the criteria [9 Credit Hours] 3 cr. (see Note 11) Fa/Sp 3 cr. (see Note 7) Fa/Sp 3 cr. (see Note 8) Fa/Sp 3 cr. (see Note 9) Fa/Sp ENGL · Students must have a grade of C or English Literature · Students must take 6 credit hours of Human Diversity courses (these courses are allowed to satisfy other higher in ENG 15000 and ENG Grade: Grade: Grade: 3 cr. (see Note 6) Fa/Sp GE requirements as well - some courses do, but others do not, depending upon the course - see note 11) 17000 • The General Education Math requirement is covered by Math 14100 Students must take 3 credit hours • The General Education Social Science, Natural Science, or Math elective is covered by MTH 15100 of English Literature (subject to the criteria of note 6) GE Elective 1 GF Flective 2 LNO 10100 3 cr. (see Note 10) Fa/Sp 3 cr. (see Note 10) Fa/Sp Freshmen Experience ENG 11000 / EPP 11000 cr. (see Note 12) Fa/Sp 3 cr. (Gen. Elect.) Fa/Sp Grade: Grade: General Elective EPP 10600 * Fa/Sp 6 cr. (Gen. Elect.) Fa/Sp CSC 10011/10022 CSC 14400 CSC 24400 CSC 30500 CSC 43000 CSC 44700 CSC 45100 CSC 45111 Grade: Introduction to CS Computer Science 1 Computer Science 2 Database Senior Project Proj. Mgmt. & Practice Coop I Internshin I Fa/Sp 3 cr. Fa 4 cr. Fa/Sp 4 cr. Fa/Sp 3 cr. 3 cr. Sp 3 cr. Interm. 3 cr. Interm EPP 10500 * (Junior & 3.0 GPA Req.) (Junior & 3.0 GPA Req.) 6 cr. (Gen. Elect.) Fa/Sp General Elective Grade: Grade: Grade: Grade: Grade: Grade: Grade: Grade: Grade: cr. Fa/Sp EPP 10100 * Grade: COMPUTER INFORMATION SYSTEMS 3 cr. (Gen. Elect.) Fa/Sp CSC 34400 CSC 40500 CSC 40800 CSC 45200 CSC 45211 Grade: REQUIREMENTS **GUI Application Design** Computer Graphics Org. of Prog. Lang. Coop II Internship II General Elective EPP 10000 * 4 cr. 3 cr. Interm 3 cr. Interm 3 cr. Interm. 3 cr. Interm. Fa/Sp cr. 3 cr. (Gen. Elect.) Fa/Sp Grade: Grade: Grade: Grade: Grade Major Grade: Grade: General Elective General Elective CSC 25500 CSC 409xx CSC 36000 CSC 409xx CSC 48000 COM 33400 3 cr. Fa/Sp Courses 3 cr. Fa/Sp Assembly Special Topics **Data Structures** Telecomm / Networks Special Topics Weh Design Interm. Sp. 3 cr. Sp 3 cr. Interm. Sp. Fa/Sp Grade: Grade: (Pre-Req's Apply) (Pre-Req's Apply) (60 Credit Hours) Grade: Grade: Grade: Grade: (Pre-Reg's Apply) Grade: . Students must have a grade of C or General Elective General Flective higher in all major courses) COMPUTER SCIENCE **ELECTIVES** CSC 40300 CSC 40600 MIS 44020 COM 42400 Grade: Grade: Computer Architecture Operating Systems · You must take 12 credit Info. Sys. Anal. & Design ppl. for Mobile Devices 3 cr. Fa 4 cr. hours of 30000-level or 3 cr. Interm. Interm. 3 cr. 40000-level Computer (Pre-Req's Apply) (Pre-Req's Apply) Grade: Grade: Science Electives (subject Gen. Elective 30000+ Gen. Elective 30000+ Grade: _ Grade: _ to the criteria in note 1) Fa/Sp 3 cr. Fa/Sp Grade: Grade **GENERAL ELECTIVES MATH REQUIREMENTS** MTH 22100 ⊲ **BUSINESS** Total credit hours must be ≥ 120 MGMT 26032 MGMT 36050 Discrete Structures REQUIREMENTS Organizational Behavior · Students must take enough general electives to reach a Prin. of Management Gen. Elective 30000+ Gen. Elective 30000+ 3 cr. minimum of 120 credit hours 3 cr Fa/Sp Fa/Sp 3 cr. Fa/Sp Grade · Students must take 18 credit hours of general electives at Grade: Grade: the 30000-level or above in order to meet the requirement Grade: Grade: of at least 42 credit hours at or above the 30000-level MTH 11000 # 1 MTH 14100 ± MTH 15100 ± ACCT 21010 ACCT 21011 ECON 23010 Interm. Algebra Prin. of Financial Acct. Gen. Elective 30000+ Gen. Elective 30000+ **Basic Statistics** College Algebra Prin. of Managerial Acct Survey of Economics 3 cr. (Gen. Elect.) Fa/Sp 3 cr. (see note 11) Fa/Sp Fa/Sp Fa/Sp 3 cr. Fa/Sp 3 cr. Fa/Sp 3 cr. Fa/Sp 3 cr. Fa/Sp 3 cr Grade: Grade Grade: Grade: Grade:

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 30100, 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, ESC 13000, ESC 14000

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 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 30500, REL 30500, REL 32600, REL 33500, 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 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.