## B.A. in Computer Science with Teacher Certification

Code Title Semester
Hours
BA in Computer Science with Teacher Certification Degree Plan (120 hours) Core Requirements ( 39 hours)
First Year Seminar3
FYE 1301 First Year Seminar
Freshmen Composition I
Rhetoric and Composition
Rhetoric and Composition
Rhetoric and Composition for International Students
Rhetoric and Composition for International Students
EN 1311
EN 1311
Literature ..... 3
Any EN 23XX literature course
History ..... 3
Any 1000, 2000, or 3000-level HS course
Social Science ..... 6
Select two from the following: BA 1310, CJ 1301, CPH 1301, EC 2301, EC 2303, HU 3300, HU 3303, PO 1311, PO 1312, PO 1314,PS 1301, PS 2310, PS 2353, PS 2355, PS 2363, PS 2337, SC 1311, SC 2321, SC 2371, 3 hrs. of Communication Studies (CM 1341,CM 2333, CM 2334)
Mathematics
Satisfied by MT 2303 in the courses required for this major.
Natural or Physical Sciences ..... 3
Select one: BL 1301, BL 1302, BL 3311, CH 1303, CH 1401, CH 1402, ES 1300, ES 1301, ES 1302, ES 1303, ES 1304, ES 1305, ES 1373, PY 1300, PY 1310, PY 1401, PY 1402
Fine Arts 3
AR 1300, AR 1301, AR 1311, AR 1312, AR 2301, AR 2321, AR 2361, AR 2362, AR 3331, AR 3351, AR 3381, AR 3392, 3 hrs. DM, 3 hrs. of MU
Foreign Language and International Engagement
This requirement is satisfied through one of four ways: (1) One 3-hour course in any language at the 3000 level or above, with a grade of $B$ or better; (2) Two courses (1311 and 1312) in a language not previously studied; (3) Two courses (2311 and 2312) in a language previously studied at the high school or college level; (4) Qualifying scores on an AP or CLEP exam, or both the ACTFL OPI and WPT exams
Philosophy - Self
PL 1301 Intro to Philosophy
Philosophy - Ethics 3
PL $2301 \quad$ Foundations of Ethics
Theology - God 3
TH 1301 Introduction to Theology
Intermediate Theology
Any TH 33xx course

## Computer Science Major Courses (45 hours)

MT $2323 \quad$ Discrete Math Structures 3
CS $1310 \quad$ Programming I in C 3
CS 1311 Data Structures 3
CS 2110 Sophomore CS Seminar 1
CS 2313 Object Oriented Programming I 3
CS 2315 Algorithms 3
CS $2323 \quad$ Object Oriented Programming II 3
CS 2350 Computer Architecture 3
CS 3110 Junior CS Seminar 1
CS 3310 Intro to Systems Analysis and Design 3
CS 3320 Files and Database 3

| CS 3330 | Computer Networks | 3 |
| :--- | :--- | :--- |
| CS 3340 | Software Engineering | 3 |
| CS 3350 | Operating Systems | 3 |
| CS 4110 | Senior CS Seminar | 1 |
| CS 4385 | Programming Projects | 3 |
| Teaching Certification (27 hours) |  | 3 |
| ED 3302 | The American Secondary School | 3 |
| ED 3361 | Adolescent Development in the School Setting | 3 |
| ED 2330 | Teaching Diverse Populations | 3 |
| ED 3355 | Educational Technology | 3 |
| ED 3362 | Teaching-Learning and Secondary Methods | 3 |
| ED 3350 | Reading-- Teaching Reading in the Secondary Content Areas | 3 |
| ED 4388 | Professional Development Seminar-Secondary | 3 |
| ED 4689 | Student Teaching-Secondary | 6 |
| Electives $\mathbf{( 9 \text { hours) }}$ |  | 9 |
| An elective can be any course taken from any discipline. Students can use these hours to pursue certificates, minors, or second majors. |  |  |
| Total Semester Hours |  |  |

This is a recommended degree plan subject to changes. Please meet with your adviser on a regular basis.

## First Year

| Fall | Semester <br> Hours | Spring |
| :--- | :--- | :--- | | Semester <br> Hours |
| :--- |
| MT 2303/2306/1411 statistics or precalculus |

## Second Year

$\left.\begin{array}{lll}\text { Fall } & \begin{array}{l}\text { Semester } \\ \text { Hours }\end{array} & \text { Spring }\end{array} \begin{array}{l}\text { Semester } \\ \text { Hours }\end{array}\right\}$

## Third Year

$\left.\begin{array}{lll}\text { Fall } & \begin{array}{l}\text { Semester } \\ \text { Hours }\end{array} & \text { Spring }\end{array} \begin{array}{l}\text { Semester } \\ \text { Hours }\end{array}\right\}$

## Fourth Year

## Fall

## Semester Spring

Semester Hours
Elective

| Elective | 3 ED 4388 | 3 |
| :--- | :--- | :--- |
| CS 3350 | 3 ED 4689 | 6 |
| CS 4110 | 1 |  |
| ED 3362 | 3 |  |
| ED 3350 | 3 | 12 |
|  | 16 | 10 |

Total Semester Hours 120

