

**St. Mary's University**

**BA in Computer Science and Application Systems Degree Plan – 120 Hours**

*The maximum credit transferable from a junior college, or any combination of junior colleges, is 66 semester hours.*

**St. Mary's Core (45 hours)**

| Requirements                                    | Texas Common Course Equivalency                                                                                                                                                                                                    | Hours Required |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| — First Year Experience                         | Not required for transfer students accepted with 30 or more credit hours however a student may need to take three (3) additional hours of elective credits in order to meet the required hours for this degree.                    | 3              |
| — Freshmen Composition I                        | ENGL 1301                                                                                                                                                                                                                          | 3              |
| — Literature                                    | ENGL 1302 or any ENGL 23XX Literature course                                                                                                                                                                                       | 3              |
| — History                                       | Any HIST 13XX or 23xx course                                                                                                                                                                                                       | 3              |
| — Social Science                                | Any <b>two</b> of the following courses: BUSI 1301, CRIJ 1301, ECON 2301, ECON 2302, GOVT 2305, GOVT 2306, PSYC 1301, PSYC 2306, PSYC 2316, PSYC 2314, SOCI 1301, SOCI 1306, SOCI 2319, SPCH 1311, SPCH 1315, SPCH 1321, SPCH 2335 | 6              |
| — Mathematics                                   | MATH 1342, MATH 1442, BUSI 2305, or 2412                                                                                                                                                                                           |                |
| — Natural or Physical Sciences                  | Select one: BIOL 1308, BIOL 1309, CHEM 1411, CHEM 1412, GEOL 1301, GEOL 1303, GEOL 1401, GEOL 1403, GEOG 1301, GEOL 1304, GEOL 1305, GEOL 1404, GEOL 1405, PHYS 1305, PHYS 1401, PHYS 1402.                                        | 3              |
| — Fine Arts                                     | Any 3-credit hour Fine Arts course from the following: ARTS, MUSI, DRAM                                                                                                                                                            | 3              |
| — Foreign Language and International Engagement | Two courses (1411 and 1412) in a language not previously studied or two courses (2311 and 2312) in a language previously studied                                                                                                   | 6              |
| — Philosophy – Self                             | PHIL 1301                                                                                                                                                                                                                          | 3              |
| — Philosophy – Ethics                           | PHIL 2306                                                                                                                                                                                                                          | 3              |
| — Theology                                      | Theology courses from other universities may be transferable with the approval of the Theology Department                                                                                                                          | 3              |
| — Intermediate Theology                         | Theology courses from other universities may be transferable with the approval of the Theology Department                                                                                                                          | 3              |

**Computer Science Major Courses (51 hours)**

| Requirements for this major:               | Texas Common Course Equivalency | Hours Required |
|--------------------------------------------|---------------------------------|----------------|
| — MT 2323 – Discrete Math Structures       | MATH 2305                       | 3              |
| — CS 1310 – Programming I in C             | COSC 1336 or COSC 1436          | 3              |
| — CS 1311 – Data Structures                | COSC 2436 or COSC 2315          | 3              |
| — CS 2110 – Sophomore CS seminar           | No equivalent                   | 1              |
| — CS 2313 – Object Oriented Programming I  | COSC 1337 or COSC 1437          | 1              |
| — CS 2315 - Algorithms                     | No equivalent                   | 3              |
| — CS 2323 – Object Oriented Programming II | No equivalent                   | 3              |
| — CS 2350 – Computer Architecture          | COSC 2325                       | 3              |

|                             |                                                |               |           |
|-----------------------------|------------------------------------------------|---------------|-----------|
| —                           | CS 43XX – CS Elective                          | No equivalent | 3         |
| —                           | CS 3110 – Junior CS Seminar                    | No equivalent | 1         |
| —                           | CS 3310 – Intro to Systems Analysis and Design | No equivalent | 3         |
| —                           | CS 3320 – Files and Database                   | No equivalent | 3         |
| —                           | CS 3330 – Computer Networks                    | No equivalent | 3         |
| —                           | CS 3335 – Operating Systems                    | No equivalent | 3         |
| —                           | CS 3340 – Software Engineering                 | No equivalent | 3         |
| —                           | CS 3350 – Operating Systems                    | No equivalent | 3         |
| —                           | CS 4110 – Senior CS Seminar                    | No equivalent | 1         |
| —                           | CS 4315 – AI & Machine Learning                | No equivalent | 3         |
| —                           | CS 4395 – Senior Project                       | No equivalent | 3         |
| <b>Electives (24 hours)</b> |                                                |               | <b>24</b> |

An elective can be any course taken from any discipline. Students can use these hours to pursue certificates, minors, or second majors.

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|---------------------------------------------|------------|
| <b>Total Semester hours for this degree</b> | <b>120</b> |
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Updated 07/30/2026