

Division of Natural Sciences, Mathematics and Computer Science

Program of Study

(2016-2017 Catalog)

Major: Computer Science

- Note:**
1. Please write transfer course numbers in front of LOC course numbers
 2. Students are required to successfully complete 120 semester hours to graduate from LOC;
 3. Which **45** credit hours must be from 300-400 level courses.

Name: _____

Home Address: _____

Student ID#: _____

Phone: _____

Date Entered in Program: _____

Advisor: _____

| Courses | Hrs. | Grd. | Yr. | Courses | Hrs. | Grd. | Yr. |
|--|---------|------|-----|---|------|------|-----|
| Core Curriculum 42 Cr. Hrs. | | | | Choose one of the following Concentration Areas | | | |
| COSI 118 | 3 | | | 1) Computer Science Concentration (16 Cr. Hrs.) | | | |
| ENGL 111 | 3 | | | MATH 202 (Required) | 4 | | |
| ENGL 112 | 3 | | | <i>Choose 12 credit hours from any of the following:</i> | | | |
| ENGL 205 | 3 | | | ITEC 310 –Introduction to UNIX | 3 | | |
| FRSM 101+ 102 (transferred in with 30hrs) | 2+2 | | | ITEC 330 –Computer Networks | 3 | | |
| HIST 221 | 3 | | | COSI 425–Artificial Intelligence | 3 | | |
| HLFW 129 | 1 | | | ITEC 435 –Network Security | 3 | | |
| HLFW Activity | 1 | | | COSI 314 - Data Visualization | 3 | | |
| HUMN 211 | 3 | | | COSI 450 –Special Topics | 3 | | |
| HUMN 212 | 3 | | | COSI 499 –Computer Science Co-Op | 3 | | |
| MATH 130 (MATH 113 from McNeese) | 3 | | | ITEC 305 –Web Page Development | 3 | | |
| MATH 145 | 3 | | | ITEC 315 –Client-Side Web Programming | 3 | | |
| NATS 110 | 3 | | | ITEC 415 –Server-Side Web Programming | 3 | | |
| NATS 112 | 3 | | | ITEC 350 –Database Programming | 3 | | |
| SOSI 111 | 3 | | | ITEC 445 –Database Administration | 3 | | |
| Note: If PHYS 201 or CHEM 101 is chosen, NATS 112 can be exempt. If BIOL 101 is chosen, NATS 110 can be exempt. However, there will be 3 more credit hours of general electives required. | | | | OR | | | |
| Major Req. Courses 33 Cr. Hrs. | | | | 2) Information Assurance and Cyber Defense (18 Cr. Hrs.) | | | |
| COSI 120/ITEC120 – Intro to Technology | 3 | | | COSI/ITEC 310 - Introduction to UNIX | 3 | | |
| COSI 200 – Intro. to Cyber Security (ITEC 450) | 3 | | | COSI 355– Digital Forensics | 3 | | |
| COSI 223 – Introduction to Programming | 3 | | | ITEC 430 -Advance Networking | 3 | | |
| COSI 225 – Advanced Programming | 3 | | | ITEC 435 – Network Security | 3 | | |
| COSI 240 – Discrete Mathematics | 3 | | | CRJS 355– Cyber Ethics and Cyber Law | 3 | | |
| COSI 320 – Computer Organization and Assembly Language (ITEC 320) | 3 | | | CRJS 465- Forensic Evidence | 3 | | |
| COSI 330 – Data Structures | 3 | | | OR | | | |
| COSI 335 – Algorithms | 3 | | | 3) Network Administration and Design (15 Cr. Hrs.) | | | |
| COSI 345 – Database Management (substitute - ITEC 445 Database Admin) | 3 | | | COSI/ITEC- 310 Introduction to UNIX | 3 | | |
| COSI 350 – Programming Languages | 3 | | | ITEC 330- Computer Networks | 3 | | |
| COSI 410 – Operating System | 3 | | | ITEC 335- Network Administration | 3 | | |
| COSI 455 – Computer Science Project | 3 | | | ITEC 430- Advance Networking | 3 | | |
| COSI 460 - Capstone | 3 | | | ITEC 435- Network Security | 3 | | |
| Cognate. Courses: 15 Cr. Hrs. | | | | OR | | | |
| MATH 201 | 4 | | | 4) Criminal Justice (18 Cr. Hrs.) | | | |
| MATH 310 | 3 | | | CRJS 200- Intro. to Criminal Justice | 3 | | |
| One of the choices of three sets (8 hrs total) | | | | CRJS 204- American Legal System | 3 | | |
| PHYS 201 + Lab / PHYS202+Lab | 3+1/3+1 | | | CRJS 321- Constitutional Law | 3 | | |
| CHEM 101 + Lab / CHEM 102+Lab | 3+1/3+1 | | | CRJS 325- Civil/Crim. Court Procedures | 3 | | |
| BIOL 101 + Lab /BIOL 102+Lab | 3+1/3+1 | | | CRJS 328- Intro. to the Study of Law | 3 | | |
| | | | | PHIL 312- Ethical and Social Philosophy | 3 | | |
| General Electives: _____ Cr. Hrs. (enough to total 120 hrs.) | | | | | | | |