# Election of Major
# Software Engineering (49-51 hours)
## 2020-2021 Catalog

Name_____     I.D. Number_____

Planned Degree Completion Date:  Mo._____  Yr._____     ✔ One Degree:____BA    ____BS

**Required Courses**                                                                       **Hours**
Do not write in shaded area

| | | | |
|---|---|---|---|
| | CPTR 111 | Foundations of Computer Science I | 4.0 |
| | CPTR 113 | Foundations of Computer Science II | 3.0 |
| | CPTR 231 | Object-Oriented Programming | 3.0 |
| | CPTR 310 | Algorithms and Data Structures | 3.0 |
| | CPTR 340 | Software Engineering Methodologies | 3.0 |
| | CPTR 342 | Software Quality | 3.0 |
| | CPTR 420 | Software Requirements Engineering | 3.0 |
| | CPTR 422 | Software Architecture and Design | 3.0 |
| | CPTR 475 | Internship in Software Engineering | |
| | OR | | 3.0 |
| | CPTR 499 | Senior Project | |
| | DATA 231 | Database Programming and Design | 4.0 |
| | IDIV 205 | Technical Writing | 3.0 |
| | MATH 125 | Mathematical Modeling | 4.0 |
| | MATH 130 | Discrete Mathematics | 4.0 |

**Six or more hours of approved electives selected from:**

| | | | |
|---|---|---|---|
| | CPTR 308 | Computer Architecture | 3.0 |
| | CPTR 410 | Topics in Computer Science | 4.0 |
| | CPTR 424 | Cloud Programming | 4.0 |
| | CPTR 430 | Machine Learning | 3.0 |
| | MATH 315 | Probability and Simulation | 3.0 |

Explain transfer, substitutions, or other irregularities:


Advisor Signature_____Date_____

Department Chair Signature _____Date_____


*I understand I have final responsibility for monitoring my graduation requirements.*

Student Signature_____Date_____

**Return this form to the Office of the Registrar**