**Software Engineering Curriculum – DRAFT per Proposal interpretation**

**Pre-Professional Software Engineering Requirements (76 credits):**

**Minimum GPA for Pro-school: 2.9**COMM 111: Public Speaking (3)

CS 391: Social and Ethical Issues in Computer Science (3)  
MTH 112: Elementary Functions (4)  
MTH 231: Elements of Discrete Mathematics (4)  
ST 351: Intro to Statistical Methods (4)  
ST 352: Intro to Statistical Methods (4)  
W 121: English Composition (3)

WR 327: Technical Writing (3)  
SE 101: Programming I (2)  
SE 102: Programming II (2)

SE 103: Programming III (2)

SE 107: Professional Seminar (1)

SE 110: Apprenticeship I (2) *taken for 1 credit multiple terms*

SE 111: Software Development I (6)

SE 112: Software Development II (6)

SE 113: Software Development III (6)

SE 210: Apprenticeship II (3) *taken for 1 credit multiple terms*  
SE 211: Data Science Engineering I (6)

SE 212: Data Science Engineering II (6)

SE 213: Data Science Engineering III (6)

**Professional School Software Engineering (66 credits):**

Students can begin taking Pro-School courses once they are admitted and their major is updated.  
CS 261: Data Structures (4)

CS 271: Computer Architecture & Assembly Language (4)

CS 381: Programming Language Fundamentals (4)

CS 325: Analysis of Algorithms (4)

CS 344: Operating Systems I (4)

CS upper division elective (4)

SE 301: Elements of Computing Systems I (2)

SE 302: Elements of Computing Systems II (2)

SE 303: Elements of Computing Systems III (2)  
SE 310: Apprenticeship III (3) *taken for 1 credit multiple terms*

SE 311: Scalability, Infrastructure and Security I (6)

SE 312: Scalability, Infrastructure and Security II (6)

SE 313: Scalability, Infrastructure and Security III (6)

SE 410: Apprenticeship IV (3) *taken for 1 credit multiple terms*

SE 411: Business of Software I (4) WIC  
SE 412: Business of Software II (4) WIC  
SE 413: Business of Software III (4) WIC

**OSU Graduation Requirements:**   
180 total credits *142 in major + 33-39 Bacc Core = 175 – 181 total credits*   
60 Upper Division Credits *72 upper division in major*  
Baccalaureate Core

|  |  |  |  |
| --- | --- | --- | --- |
| Baccalaureate Core Courses | | | |
| Area | Requirement | COURSE (if filled in completed with major course work) | CR |
| Skills |  |  |  |
|  | Fitness |  | 2 |
|  | Fitness Physical Activity |  | 1 |
|  | Mathematics | MTH 112 Elementary Functions | 4 |
|  | Speech | COM 111 - Public Speaking | 3 |
|  | Writing I | WR 121 - English Composition | 3 |
|  | Writing II | WR 327 - Technical Writing | 3 |
| Perspective |  |  |  |
|  | Biological Science |  | 4 |
|  | Cultural Diversity |  | 3-4 |
|  | Literature and Arts |  | 3-4 |
|  | Physical Science |  | 4 |
|  | Physical or Bio Science |  | 4 |
|  | Social Processes and Institutions |  | 3-4 |
|  | Western Culture |  | 3-4 |
|  | Difference, Power, and Discrimination |  | 3-4 |
| Synthesis |  |  |  |
|  | Contemporary Global Issues |  | 3-4 |
|  | Science, Technology, and Society | CS 391 - Social and Ethical Issues in Computer Science | 3 |
| WIC |  |  |  |
|  | Writing Intensive Course | SE Business Software I WIC |  |