



SOFTWARE ENGINEERING 2022-2023

Recommended Four-Year Course Plan

Dr. Diana Saldana dianasaldana@arizona.edu

To speak with an advisor contact (928) 782-1914

| Year One | | | |
|---------------|--------------|-------|----------|
| Summer Before | | | |
| Course | Title | Units | Complete |
| MAT 187 | Precalculus* | 4 | |
| Total | | 4 | |

| Fall - Semester One | | | |
|---------------------|--------------------------|-------|----------|
| Course | Title | Units | Complete |
| ENG 101 | Freshman English | 3 | |
| CHM 151~ | General Chemistry I | 4 | |
| MAT 220~ | Calculus I with Analytic | 5 | |
| EGR 188~ | Fundamentals of EGR | 4 | |
| Total | | 16 | |

| Spring - Semester Two | | | |
|-----------------------|---------------------------|-------|----------|
| Course | Title | Units | Complete |
| ENG 102~ | Freshman English | 3 | |
| MAT 230~ | Calculus II with Analytic | 5 | |
| CHM 152~ | General Chemistry II | 4 | |
| EGR 123~ | Structured Programing | 3 | |
| Total | | 15 | |

| | |
|-----------------------------|----|
| Total Year 1 Credits | 35 |
|-----------------------------|----|

| Year Three | | | |
|---------------|------------------------|-------|----------|
| Summer Before | | | |
| Course | Title | Units | Complete |
| SIE 277 | Object Oriented Design | 3 | |
| Total | | 3 | |

| Fall- Semester Five | | | |
|---------------------|---------------------------|-------|----------|
| Course | Title | Units | Complete |
| SFWE 101 | Intro to SFWE | 3 | |
| ECE 275* | Computer Programming II | 3 | |
| SFWE 201 (Y) | Sophomore Colloquium | 1 | |
| ECE 274A | Digital Logic | 4 | |
| SFWE 301* (Y) | SW Req's, Anlysis, & Test | 3 | |
| Total | | 14 | |

| Spring- Semester Six | | | |
|----------------------|----------------------------|-------|----------|
| Course | Title | Units | Complete |
| SFWE Elective | See Advisor | 3 | |
| SFWE 401 | SW Assurance & Security | 3 | |
| SFWE 302 | SW Design Process | 3 | |
| CSC 355 (Y) | Discrete Structures & Algo | 3 | |
| SIE 305 | Engineering Prob & Stats | 3 | |
| Total | | 15 | |

| | |
|----------------------|----|
| Total Year 3 Credits | 32 |
| Total Year 4 Credits | 31 |

| Year Two | | | |
|-----------------------|----------------|-------|----------|
| Fall - Semester Three | | | |
| Course | Title | Units | Complete |
| MAT 241~ | Calculus III | 4 | |
| PHY 121~ | Physics I | 4 | |
| EGR 251+ | Statics | 3 | |
| AGEC-S | Social Science | 3 | |
| AGEC-S | Art | 3 | |
| Total | | 17 | |

| Spring - Semester Four | | | |
|------------------------|------------------------|-------|----------|
| Course | Title | Units | Complete |
| PHY 131~ | Physics II | 4 | |
| AGEC-S | Social Science | 3 | |
| AGEC-S | General Elective | 3 | |
| AGEC-S | Humanities-WI | 3 | |
| EGR 207+ | Elements of Elec. Egr. | 3 | |
| Total | | 16 | |

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|-----------------------------|----|
| Total Year 2 Credits | 33 |
|-----------------------------|----|

| Year Four | | | |
|----------------------|-----------------------|-------|----------|
| Fall- Semester Seven | | | |
| Course | Title | Units | Complete |
| ECE 311 | Engineering Ethics | 1 | |
| SFWE 403 | SW Project Management | 3 | |
| ECE 369A | Computer Organization | 4 | |
| SFWE 402 | SW Dev Ops | 4 | |
| SFWE 491 | SW Preceptor | 1 | |
| ENGR 498A | Senior Design | 3 | |
| Total | | 16 | |

| Spring- Semester Eight | | | |
|------------------------|-----------------|-------|----------|
| Course | Title | Units | Complete |
| SFWE Elective | See Advisor | 3 | |
| SFWE Elective | See Advisor | 3 | |
| SFWE Elective | See Advisor | 3 | |
| SIE 464 | Cost Estimation | 3 | |
| ENGR 498B | Senior Design | 3 | |
| Total | | 15 | |

| | |
|-------------------|-----|
| AS in Engineering | 68 |
| BS Degree | 95 |
| Total | 163 |