**Major Form for Program Starting**

**Fall 2016**

**san José state university, computer engineering department**

**bachelor of science in Software engineering**

Top of Form

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | |  | | | | | | |  |  |  | | | |
| *Last* | | | *First* | | | | | | | *M.I.* |  | *Student ID* | | | |
| Total number of units for degree: 120 | | | Catalog year (select one) | | | | | | | | Proposed semester of graduation: | | |  | |
|  | | | Fall 2016  Graduating Semester | | | | | | | |  | | | | |
| **core courses (Totals 11 units)** | | | | | | | | | | | | | | | |
| **Dept** | **No.** | **Title** | | **Units** | **Grade** | | **Dept** | | **No.** | **Title** | | | **Units** | | **Grade** |
| Engr | 010 | Introduction to Engineering | | 3 |  | | CS | | 046A | Introduction to Programming | | | 4 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
|  |  |  | |  |  | | CS | | 046B | Introduction to Data Structures | | | 4 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| **required courses (Totals 49 units)** | | | | | | | | | | | | | | | |
| CmpE | 102 | Assembly Language Programming | | 3 |  | | CS | | 149 | Operating Systems | | | 3 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| CmpE | 120 | Computer Organization and Architecture | | 3 |  | | CS | | 151 | Object – Oriented Design | | | 3 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| CmpE | 131 | Software Engineering I | | 3 |  | | CS | | 157A | Introduction to Database Management | | | 3 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| CmpE | 133 | Software Engineering II | | 3 |  | | CS | | 166 | Information Security | | | 3 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| CmpE | 148 | Computer Networks | | 3 |  | | ISE | | 164 | Computer and Human Interaction | | | 3 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| CmpE | 165 | Software Engineering Process Management | | 3 |  | | CmpE | | 195A | Senior Design Project I | | | 2 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| CmpE | 172 | Enterprise Software Platforms | | 3 |  | | CmpE | | 195B | Senior Design Project II | | | 3 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| CmpE | 187 | Software Quality Engineering | | 3 |  | | Engr | | 195A | Global and Social Issues in Engineering (S) | | | 1 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| CS | 146 | Data Structures and Algorithms | | 3 |  | | Engr | | 195B | Global and Social Issues in Engineering (V) | | | 1 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| **technical electives (Totals 6 units)** | | | | | | | | | | | | | | | |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| **courses required in preparation for the major**  ***Mathematics, Physics & Biology* (Totals 33 units)** | | | | | | | | | | | | | | | |
| Biol | 010 | The Living World | | 3 |  | | Phys | | 050 | Mechanics | | | 4 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| Math | 030 | Calculus I | | 3 |  | | Phys | | 051 | Electricity and Magnetism | | | 4 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| Math | 031 | Calculus II | | 4 |  | | Math | | 123 | Differential Equations & Linear Algebra | | | 3 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| Math | 032 | Calculus III | | 3 |  | | ISE | | 130 | Engineering Probability & Statistics | | | 3 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| Math | 042 | Discrete Mathematics | | 3 |  | | Engl | | 01B | Argument & Analysis | | | 3 | |  |
|  |  |  | |  |  | |  | |  |  | | |  | |  |
| ***Signature of student*** *: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* ***Date****:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  \*Footnotes if applicable  The student will have completed all the requirements for the Bachelor of Science in Computer Engineering after: | | | | | | | | | | | | | | | |  |  |
| a) Successful completion of the above work.  b) An audit of the student’s transcript of record to verify that all appropriate data has been entered accurately.  c) A minimum 2.0 GPA in all REQUIRED COURSES has been achieved.  d) A minimum 2.0 GPA in all REQUIRED COURSES and TECHNICAL ELECTIVES combined has been achieved.  e) A minimum 2.0 GPA in all REQUIRED COURSES and TECHNICAL ELECTIVES taken at SJSU has been achieved.  f) A minimum “C” in Math 030, Math 031, Phys 050 and Phys 051 has been achieved.  g) A minimum “C” in CmpE 195 A/B and Engr 195 A/B has been achieved.  h) A minimum “C-“ in all other courses has been achieved. | | | | | | | | | | | | | | | |
| ***Signature of Major Advisor*** | | | | ***Date*** | |  | | ***Signature of CmpE Department Chair:*** | | | | | ***Date*** | | |

**Major Form Worksheet for BS in Software Engineering**

**Student Name:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Student ID:**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Curriculum for:** *Fall 2016* **Program Start Sem/Year:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**(To be filled out by reviewer ONLY)**

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| --- | --- | --- | --- | --- |
| **Done** | **Dept** | **No.** | **Title** | **Comments** |
|  | Eng | 010 | Introduction to Engineering |  |
|  | CS | 46A | Introduction to Programming |  |
|  | CS | 46B | Introduction to Data Structure |  |
|  | CmpE | 102 | Assembly Language Programming |  |
|  | CmpE | 120 | Computer Organization and Architecture |  |
|  | CmpE | 131 | Software Engineering I |  |
|  | CmpE | 133 | Software Engineering II |  |
|  | CmpE | 148 | Computer Networks |  |
|  | CmpE | 165 | Software Engineering Process Management |  |
|  | CmpE | 172 | Enterprise Software Platforms |  |
|  | CmpE | 187 | Software Quality Engineering |  |
|  | CS | 146 | Data Structures and Algorithms |  |
|  | CS | 149 | Operating Systems |  |
|  | CS | 151 | Object – Oriented Design |  |
|  | CS | 157A | Introduction to Database Management |  |
|  | CS | 166 | Information Security |  |
|  | ISE | 164 | Computer and Human Interaction |  |
|  | CmpE | 195A | Senior Design Project I |  |
|  | CmpE | 195B | Senior Design Project II |  |
|  | Engr | 195A | Global and Social Issues in Engineering (S) |  |
|  | Engr | 195B | Global and Social Issues in Engineering (V) |  |
|  | ISE | 130 | Engineering Probability & Statistics |  |
|  | Biol | 010 | The Living World |  |
|  | Math | 123 | Linear Algebra & Differential Equations |  |
|  | Math | 030 | Calculus I |  |
|  | Math | 031 | Calculus II |  |
|  | Math | 032 | Calculus III |  |
|  | Math | 042 | Discrete Mathematics |  |
|  | Phys | 050 | Mechanics |  |
|  | Phys | 051 | Electricity & Magnetism |  |
|  | Engl | 01B | Argument & Analysis |  |
| Technical Electives (6 units) | | | | |
|  |  |  |  |  |
|  |  |  |  |  |

Reviewer’s Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_

Form MF-F09S13: rev 08122014