Washington State University
MAJOR CHANGE FORM – REQUIREMENTS

NOTE: If proposing a **new** program (degree) or **extending, moving, consolidating, eliminating or renaming** an existing program (degree), these proposals must first go through the Provost's Office review process. Please do not use this form. Please contact the Provost's Office for directions on processing program (degree) proposals.

SUBMITTING PROPOSAL – Follow the steps on form, then:

- **Submit one electronic copy of complete packet of signed form/rationale statement/supporting documentation and/or edits** to wsu.curriculum@wsu.edu.
- Send the **original stapled packet** PLUS **10 stapled copies** of packet to the **Registrar's Office,** campus mail code 1035.

Department Name School of Electrical Engineering and Computer Science

1. Check proposed changes:

- ☐ New Plan (Major) *in* _____ CIP#___._____
- ☐ Change name of Plan (Major) *from* _____ *to* _____
- ☑ Revise certification requirements for the Plan (Major) *in* Computer Engineering
- ☑ Revise Plan (Major) requirements *in* Computer Engineering
- ☐ Drop Plan (Major) *in* _____

- ☐ New Sub-Plan (Option) *in* _____ CIP#___._____
- ☐ Change name of Sub-Plan (Option) from _____ *to* _____
- ☐ Revise requirements for the Sub-Plan (Option) *in* _____
- ☐ Drop Sub-Plan (Option) *in* _____

- ☐ New Minor *in* _____ CIP#___._____
- ☐ Change name of Minor from _____ *to* _____
- ☐ Revise Minor requirements *in* _____
- ☐ Drop Minor *in* _____

- ☐ New Certificate *in* _____ CIP#___._____
- ☐ Change name of Certificate from _____ *to* _____
- ☐ Revise Certificate requirements *in* _____
- ☐ Drop Certificate *in* _____

- ☐ Other _____

2. **Effective Date: Fall** 2016 (Effective date must be for future fall term.) ***Submission deadline is Oct 1st.***
NOTE: Items received after deadlines may be put to the back of the line or forwarded to the following year. Please submit on time.

Contact: Josh Whiting Phone number: 335-2446
Email: joshwhiting@wsu.edu Campus mail code: 2752

3. PLEASE ATTACH A RATIONALE STATEMENT giving the reasons for each request marked above, and explaining how this impacts other units in Pullman and other campuses (if applicable).

4. PROVIDE SUPPORTING DOCUMENTATION AND/OR CURRENT CATALOG COPY with edit marks showing requested changes.

5. SIGN AND DATE APPROVALS.

Chair Signature/date	Dean Signature/date	CSC Date	
Chair Signature/date	Dean Signature/date	AAC or GSC Date	Senate Date

RATIONALE

New programming courses taught in Java are being offered starting Fall 2016. These changes formalize how Java programming courses will be used to earn a degree in Computer Engineering.

Current Requirements

Computer Engineering (123 Hours)

Students may apply for certification into the Bachelor of Science in Computer Engineering degree program after completion of the following courses with a grade of C or better and a cumulative GPA of 2.5 or higher: CPT S 121; E E 214; MATH 171, 172, 216, 220, 273; PHYSICS 201.

No courses listed in this schedule of study may be taken on a pass/fail basis. All listed E E and CPT S courses, required electives, and prerequisites to these courses must be completed with a grade of C or better.

First Year	
First Term	Hours
CHEM 105 [PSCI]	4
CPT S 121	4
ENGLISH 101 [WRTG]	3
MATH 171 [QUAN]	4
Second Term	Hours
CPT S 122	4
MATH 172	4
MATH 216	3
PHYSICS 201	4
Second Year	
First Term	Hours
CPT S 223	3
E E 214	4
MATH 220	2
MATH 273	2
PHYSICS 202	4
Second Term	Hours
Creative & Professional Arts [ARTS]	3
E E 234	4
E E 261	3
E E 262	1
HISTORY 105 [ROOT]	3
MATH 315	3
Complete Writing Portfolio	

Third Year	
First Term	Hours
E E 311	3
E E 321	3
E E 324 [M]	4
E E 352 [M]	3
ENGLISH 402 [WRTG]	3
Second Term	Hours
Biological Sciences [BSCI]	3 or 4
CPT S 360	4
E E 334	3
Engineering Science Elective[1]	3
STAT 360	3
Fourth Year	
First Term	Hours
Approved CPT E Technical Electives[2]	3
E E 415	2
ECONS 101 [SSCI] or 102 [SSCI]	3
Humanities [HUM]	3
Senior Design Elective I[3]	3
Second Term	Hours
Approved CPT E Technical Electives[2]	6
Diversity [DIVR]	3
E E 302	3
E E 416 [CAPS] [M]	3
Complete CPT E Exit Interview and Survey	

Footnotes

[1] Choose from E E 331, 341, ME 301, or MSE 302. (Note: If either E E 331 or E E 341 is taken as an engineering science elective, it cannot also count as a technical elective.)

[2] Technical electives must all be 300 or 400 level courses and must be chosen with an advisor's approval. Any of the following courses may be chosen to fulfill technical elective requirements: E E 331, 341, 351, 431, 432, 434, 451, 464, 466, 470, 476, 489, 496; Cpt S 317, 322, 355, 422, 423, 430, 440, 442, 443, 450, 451, 452, 455, 460, 466; One only of Math 325, 340, 364, 415, 421, 440, 441, 448, 453, 464, 466.

[3] Senior Design Electives adhere to one of the following sequences: (1) ASIC & Digital Systems: E E 416 and 434; (2) Embedded and Microcomputer Systems: CPT S 466 and E E 416; (3) VLSI Design: E E 466 and 416.

Proposed Changes to Requirements

Computer Engineering (123 Hours)

Students may apply for certification into the Bachelor of Science in Computer Engineering degree program after completion of the following courses with a grade of C or better and a cumulative GPA of 2.5 or higher: CPT S 121 or 131; E E 214; MATH 171, 172, 216, 220, 273; PHYSICS 201.

No courses listed in this schedule of study may be taken on a pass/fail basis. All listed E E and CPT S courses, required electives, and prerequisites to these courses must be completed with a grade of C or better.

First Year		Third Year	
First Term	Hours	First Term	Hours
CHEM 105 [PSCI]	4	E E 311	3
CPT S 121 or 131[4]	4	E E 321	3
ENGLISH 101 [WRTG]	3	E E 324 [M]	4
MATH 171 [QUAN]	4	E E 352 [M]	3
Second Term	Hours	ENGLISH 402 [WRTG]	3
CPT S 122 or 132[4]	4	Second Term	Hours
MATH 172	4	Biological Sciences [BSCI]	3 or 4
MATH 216	3	CPT S 360 or 370[4]	4
PHYSICS 201	4	E E 334	3
Second Year		Engineering Science Elective[1]	3
First Term	Hours	STAT 360	3
CPT S 223 or 233[4]	3	Fourth Year	
E E 214	4	First Term	Hours
MATH 220	2	Approved CPT E Technical Electives[2]	3
MATH 273	2	E E 415	2
PHYSICS 202	4	ECONS 101 [SSCI] or 102 [SSCI]	3
Second Term	Hours	Humanities [HUM]	3
Creative & Professional Arts [ARTS]	3	Senior Design Elective I[3]	3
E E 234	4	Second Term	Hours
E E 261	3	Approved CPT E Technical Electives[2]	6
E E 262	1	Diversity [DIVR]	3
HISTORY 105 [ROOT]	3	E E 302	3
MATH 315	3	E E 416 [CAPS] [M]	3
Complete Writing Portfolio		Complete CPT E Exit Interview and Survey	

Footnotes

[1] Choose from E E 331, 341, ME 301, or MSE 302. (Note: If either E E 331 or E E 341 is taken as an engineering science elective, it cannot also count as a technical elective.)

[2] Technical electives must all be 300 or 400 level courses and must be chosen with an advisor's approval. Any of the following courses may be chosen to fulfill technical elective requirements: E E 331, 341, 351, 431, 432, 434, 451, 464, 466, 470, 476, 489, 496; Cpt S 317, 322, 355, 422, 423, 430, 440, 442, 443, 450, 451, 452, 455, 460, 466; One only of Math 325, 340, 364, 415, 421, 440, 441, 448, 453, 464, 466.

[3] Senior Design Electives adhere to one of the following sequences: (1) ASIC & Digital Systems: E E 416 and 434; (2) Embedded and Microcomputer Systems: CPT S 466 and E E 416; (3) VLSI Design: E E 466 and 416.

[4] Student may choose between a C/C++ (CptS 121, 122, 223, 360) path or a Java programming (CptS 131, 132, 233, 370) path. Student should stick to one path option.