Faculty Senate Approved 2/23/2012
---REQUIREMENTS---
Spring 2012
The requirements listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective.

In the case of revisions to graduation requirements, the current GER designations are still in place in most schedules of studies. Transition to the new UCORE designations is currently under construction and is expected in early this Spring 2012 in a separate bulletin.

| Dept | Current | Proposed | Effective <br> Date |
| :---: | :---: | :---: | :---: |
| Earth and <br> Environmental <br> Sciences <br> Revise minor in <br> Environmental <br> Science | Environmental Science <br> A minor in environmental science requires 18 hours, including ES/RP $101,335,444$, and elective courses to be chosen in consultation with an ES/RP advisør. Gredit hours for the minor must include 9 hours of upper-division work taken in residence at WSU or through WSUapproved education abroad or educational exchange courses. | Environmental Science <br> A minor in Environmental Science may be certified after the completion of 90 semester credit hours. The minor requires 18 credit hours, including ENVR SCI 101, 444. An additional 10 credit hours may be selected from the following classes: ENVR SCI 250, 275, 285, 310, 335, 463, 490, GEOLOGY 230, 303, 315, NATRS 300,312 , or 454 . Of these 18 credit hours, 9 hours must be in upperdivision work taken in residence at WSU or through WSU-approved education abroad or educational exchange courses. Courses taken to meet the minor requirements cannot be taken on a pass/fail basis. | 8-12 |
| Engineering and Computer Science WSU-Vancouver Revise certification | Bachelor of Science, Computer Science Requirements (Vancouver Only) (122 Hours) | Bachelor of Science, Computer <br> Science Requirements <br> (Vancouver) (120 Hours) | 8-12 |

and graduation requirements for BS in Computer
Science.

Students who have completed at least 30 semester hours of course work and who have completed CS 121, CS 122, CS 216, CS 224, CS 260, CS 261, Math 171, Math 172, Phil 201, and Phys 201, or their equivalents, are eligible for certification into the Bachelor of Science in Computer Science program. All courses required for certification must be completed with a grade of C or better. Enrollment in 400-level computer science courses is restricted to certified majors or minors in computer science and to juniors and seniors certified in other degree programs requiring 400-level computer science courses.

No courses listed in this schedule of studies may be taken on a pass/fail basis. All listed computer science courses, and their prerequisites, must be completed with a grade of C or better.

## First Year <br> First Term

CS 121
GenEd 110 [A] (GER)
Math 171 [N] (GER)
Phil 201 [H] (GER)
Second Term
CS 122
CS 216
Engl 101 [W] (GER)
GenEd 111 [A] (GER)
Math 172
Second Year
First Term
CS 223
CS 260
EconS 101 [S] or $102[S]$
Hours
4
3
4
3
Hours
4
3
3
3
4

Hours

Students who have completed at least 30 semester hours of course work and who have completed CS 121, CS 122, CS 216, CS 224, CS 260, CS 261, MATH 171, MATH 172, and PHYSICS 201, or their equivalents, are eligible for certification into the Bachelor of Science in Computer Science program. All courses required for certification must be completed with a grade of C or better. Enrollment in 400-level computer science courses is restricted to certified majors or minors in computer science and to juniors and seniors certified in other degree programs requiring 400-level computer science courses.

No courses listed in this schedule of studies may be taken on a pass/fail basis. All listed computer science courses, and their prerequisites, must be completed with a grade of C or better.
First Year

First Term
Hours
CS 121
ENGLISH 101 [WRTG] $\underline{3}$
Pus


|  | (GER) <br> Footnotes <br> ${ }^{1} 21$ credit hours of option area courses are required for completion of the degree program. The option courses are chosen from upper-division computer science and related courses and must be pre-approved by a faculty advisor. | degree program. The option courses are chosen from upper-division computer science and related courses and must be pre-approved by a faculty advisor. |  |
| :---: | :---: | :---: | :---: |
| Mathematics <br> - Create new <br> Applied <br> Mathematics <br> Option <br> (combination of the following three options), and <br> - Drop options in Operations Research, Option, Computational Mathematics, and Mathematical Modeling <br> - Revise footnotes reflect changes. | THIRD AND FOURTH YEAR MATHEMATICS OPTIONS REQUIREMENTS <br> Mathematics majors must complete the courses specified by one of the following options: <br> Computational Mathematics Option <br> Required Courses: Cpt S 122, Math 364,448 , and two of $(416,440,464$, 466). Suggested Courses: Computer Science minor with Cpt S 223 and three upper level courses (e.g. Gpt S 317,322 , and 445 or 450 ), approved by the Cpt S undergraduate eoordinator. <br> Mathematical Modeling Option Required Courses: Four of: Math 340, 415, 440, 448, 486. Suggested Courses: Two of (Math 364, 416, $423,441,464$ ), and a mingor in an area that uses mathematical modeling. <br> Operations Research Option <br> Required Courses: Math 364, 464, | THIRD AND FOURTH YEAR MATHEMATICS OPTIONS REQUIREMENTS <br> Mathematics majors must complete the courses specified by one of the following options: <br> Applied Mathematics Option <br> Required Courses: In addition to the core requirements, at least four upperdivision courses in mathematics that form a coherent program within the Applied Mathematics Option. These courses must be approved by your advisor. <br> Theoretical Mathematics Option Required Courses: Four of: Math 302, 303, 325, 415, 441 and 453. <br> Secondary Mathematics Teaching Option <br> See separate schedule of studies below. <br> First Year <br> First Term Hours <br> Biological Sciences [B] (GER) 4 <br> Engl 101 [W] (GER) 3 | 8-12 |




|  | 122. <br> 3 <br> See Mathematics Options list for <br> suggested electives. <br> 4 <br> See Mathematics Options list for <br> required option courses. | $\square$ |  |
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