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|  | **Minor in Computer Science 2021-22 Catalog Advising Checklist** |  | Name: |  |
|  | **Semester Units: At least 16** |  | ID #: |  |

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| Prerequisite Courses (if not already taken for major) (0-8) |  |
|  |  | One Pre-calculus or Calculus course (4) (grade of C- or better) | Advising Notes: |
|  |  | CMPS 2010 - Progr. I: Programming Fundamentals (4) (grade of C- or better) |  |
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| Lower Division Required (4) |
|  |  | CMPS 2020 - Progr. II: Data Structures and Algorithms (4) (grade of C- or better) |
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| Lower Division Elective (Choose one of the following courses) (3-4) |
|  |  | CMPS 2120 - Discrete Structures (4) (MATH 3000 may be substituted for 2120) |
|  |  | CMPS 2240 - Computer Architecture I: Assembly Language Programming (4) |
|  |  | CMPS 2650 - Linux Environment and Administration (4) |
|  |  | CMPS 2680 - Web Programming I (3) |
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| Upper Division Requirement (At least 8 units of 3000- or 4000-level CMPS courses) (8-9) |
|  | Upper division CMPS courses are either 3 units or 4 units, so one needs 2-3 courses for this area. |
|  | MATH 3300, MATH 4300, ECE 4470, and ECE 4550 may be substituted for upper division course work for the minor since they are cross-listed with CMPS. |
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| Additional 2000-level or higher CMPS units, if needed to reach 16 units (0-1) |
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| **Notes on Lower Division Elective and Upper Division Requirements** |
|  | The lower division elective should be chosen to support the upper division coursework the student wishes to complete. Carefully review the prerequisites for upper division CMPS courses in the course catalog. |
|  | Example: CMPS 3560 – Artificial Intelligence has CMPS 2020 with a grade of C- or better and CMPS 2120 as prerequisites. So a student who wishes to take CMPS 3560 for the Computer Science minor should choose CMPS 2120 as their lower division elective. |
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| **Advisory Track for the CTC Specific Computer Science Supplementary Authorization (22+ units)** |
|  | The California Commission on Teacher Credentialing (CTC) allows teachers to add a supplementary authorization to their existing credential. The Specific supplementary authorization in Computer Science may be added to Single Subject, Standard Secondary, and Special Secondary (academic subject areas only) teaching credentials and authorizes the holder to teach the specific subject in preschool, K-12, and classes organized primarily for adults.  |
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|  | Recommended courses for the Specific CS Supplementary Authorization (CSSA):* One pre-calculus or calculus course, if not already taken (prereq. for CMPS courses)
* CMPS 2010 Programming I (CSSA Computer Programming requirement)
* CMPS 2020 Programming II (CSSA Data Structures and Algorithms requirement)
* Any additional CMPS lower-division course (Used to meet CSSA 20 unit requirement)
* CMPS 3350 Software Engineering (CSSA Software Design requirement)
* CMPS 3620 Computer Networking (CSSA Digital Devices, Systems, and Networks req.)
* SCI 3209 Computers and Society [GE UD B] (CSSA Impacts of Computing requirement)
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|  | Grade Regulation: CTC requires a grade of “C” or better for all courses listed on the supplementary authorization application.Consult with the CEE/CS CSSA Advisors before submitting the application. A department letter is needed to certify all courses as Computer Science courses intended to meet the guidelines. |
|  | View the Supplementary Authorization Guideline Book on CTC.ca.gov for complete information:<https://www.ctc.ca.gov/docs/default-source/credentials/manuals-handbooks/supplement-auth.pdf> |