## COMPUTER SCIENCE (SECONDARY EDUCATION) BACHELOR OF ARTS

## A Suggested Plan of Study For Students

This roadmap assumes student placement in MATH 1220G and ENGL 1110G. The contents and order of this roadmap may vary depending on initial student placement in mathematics and english. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

This roadmap adds the MATH 1511G prerequisites into the plan, MATH 1220G and MATH 1250G will not appear on the requirements tab. Any students who test into MATH 1511 G can supplement MATH 1220G and MATH 1250G with elective credits.
$\left.\begin{array}{llr}\hline \text { Freshman } & & \text { Credits } \\ \text { C S 111 } & \text { Computational Thinking for Solving Problems }\end{array}\right)$

| Junior |  |  |
| :---: | :---: | :---: |
| C S 370 | Compilers and Automata Theory | 4 |
| C S 371 | Software Development | 4 |
| Either an Area III/IV: Laboratory Science Course or Social/Behavioral Sciences Course ${ }^{3}$ |  | 3-4 |
| C S elective, List $1 / 2{ }^{5}$ |  | 3 |
| C S elective, List 1/2 ${ }^{5}$ |  | 3 |
| General Education Elective Course ${ }^{3}$ |  | 3-4 |
| EDUC 3997 | Secondary Field Experience | 3 |
| READ 4330 | Content Area Literacy ${ }^{6}$ | 3 |
| Select one from the following: |  | 3 |

[^0]| STAT 3110 | Statistics for Engineers and Scientists |  |
| :---: | :---: | :---: |
| STAT 4210 | Probability. Theory and Applications |  |
| A ST 311 | Statistical Applications |  |
| Electives as needed to meet the minimum credit requirement for financial aid ${ }^{4}$ |  |  |
|  | Credits | 30-32 |
| Senior |  |  |
| C S 482 | Database Management Systems I | 3 |
| C S elective, List $1 / 2{ }^{5}$ |  |  |
| C S elective, List $1 / 2^{5}$ |  |  |
| Viewing a Wider World Course ${ }^{7}$ |  |  |
| EDUC 4420 | Teaching Mathematics at the Middle and High School Level ${ }^{6}$ | 3 |
| EDUC 4820 | Secondary Student Teaching ${ }^{8}$ | 9 |
| EDUC 4821 | Middle and High School Student Teaching Seminar ${ }^{8}$ | 3 |
| $\begin{aligned} & \text { CS } 448 \\ & \quad \text { or C S } 449 \end{aligned}$ | Senior Project or Senior Thesis | 4 |
| CS 419 | Computing Ethics and Social Implications of Computing | 1 |
|  | Credits | 32 |
| Total Credits 123-127 |  |  |
| Required for students who do not pass MATH 1215 Intermediate Algebra or do not pass the CS placement exam and is not counted towards graduation |  |  |
| ${ }^{2}$ MATH 1511G Calculus and Analytic Geometry I is the starting requirement for this degree but students may need to take MATH 1220G College Algebra and MATH 1511G Calculus and Ana Geometry I before enrolling in it. If a student tests into MATH 151 Calculus and Analytic Geometry I then elective credits can replace MATH 1220G College Algebra/MATH 1250G Trigonometry \& PreCalculus in the roadmap. |  |  |
| ${ }^{3}$ See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses. |  |  |
| 4 Any course offered by the university. Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor. |  |  |
| ${ }^{5}$ For electives see List 1 or List 2 of Computer Science electives (https:// catalogs.nmsu.edu/nmsu/arts-sciences/computer-science/computer-science-bachelor-arts/\#requirementstext) in Degree Requirement Section. |  |  |
|  |  |  |
| See the Viewing a Wider World (https://catalogs.nmsu. nmsu/general-education-viewing-wider-world/ \#viewingawiderworldtext) section of the catalog for a f courses. |  |  |
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[^0]:    MATH 1350G Introduction to Statistics
    MATH 2350G Statistical Methods

