

B.A. Mathematics With Computer Science Option

Two courses must be taken from the following Mathematics Courses:

MAT 251	Posing and Solving Problems in Mathematics	3 S.H.
MAT 282	Ordinary Differential Equations	3 S.H.
MAT 220	Intermediate Statistics	3 S.H.
*MAT 298	Faculty Developed Study	1-4 S.H.
*MAT 299	Student Developed Study	1-6 S.H.
MAT 431	Numerical Analysis I	3 S.H.
MAT 432	Numerical Analysis II	3 S.H.
MAT 351	Independent Study	3 S.H.
MAT 356	Introduction to Operations Research	4 S.H.
MAT 400	Applied Mathematics	3 S.H.
MAT 410	Mathematical Statistics I	3 S.H.
MAT 411	Mathematical Statistics II	3 S.H.
MAT 416	Abstract Algebra	3 S.H.

*The credits from this course may be applied to the major only if the department has approved it for major credit.

One course must be taken from the following Computer Science Courses:

CS 215	Computer Architecture	4 S.H.
CS 320	Artificial Intelligence	4 S.H.
CS 330	Computer Graphics	4 S.H.
CS 355	Programming Languages	4 S.H.
CS 410	Compiler Design	4 S.H.
CS 450	Operating Systems	4 S.H.

7/01, 7/04, 6/09, 6/26/09

WESTERN CONNECTICUT STATE UNIVERSITY

**B.A. Mathematics
With Computer Science Option**

Student _____
Box _____

Office Admissions Evaluation of Transfer Credit
Entering Date _____ **day/eve/full/part-time**
Previous School(s) _____

I. GENERAL EDUCATION REQUIREMENTS (40 S.H. plus HPX)*

Communication Skills (3 S.H.)

COM 160, 161 or 162 _____ 3 _____

Has completed one Writing Intensive course Yes _____ No _____

Humanities (15 S.H. minimum, including 3 of 6 fields:

Fine and Applied Arts - only 1 studio course accepted
 toward minimum - Foreign Language, Humanistic Studies,
 Literature, Philosophy, Western History)

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**Social & Behavioral Sciences (12 S.H. minimum including
 2 of 3 fields: Non-Western Culture, Psychology, Social Sciences)**

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Natural Sciences & Mathematics (10 S.H. minimum)

MAT 181 Calculus I _____ 4 _____
 PHY 110-111 or PHY 120-121 _____ 4 _____
 Or CHE 110-111 or BIO 103-104 _____ 4 _____

Health Promotion and Exercise Sciences (2 S.H.)

HPX 177 Fitness for Life _____ 2 _____

**II. MAJOR REQUIREMENTS (36-37 S.H. including MAT 181
 + 19 S.H. in CS)**

MAT 165 Discrete Mathematics for Computer Science _____ 4 _____
 MAT 182 Calculus II _____ 4 _____
 MAT 272 Introduction to Linear Algebra _____ 3 _____
 MAT 281 Calculus III _____ 4 _____
 MAT 282 Ordinary Differential Equations _____ 3 _____
 MAT 358 Intro to Theory of Computation _____ 3 _____
 MAT 431, 432 Numerical Analysis I & II **OR**
 MAT 410, 411 Mathematical Stats. I & II (3-3) _____ 6 _____

Two Mathematics electives chosen from reverse side:

_____ 3, 4 _____
 _____ 3, 4 _____

Computer Science Requirements (19 S.H.)

CS 170 Computer Science I: Language _____ 4 _____
 CS 171 Computer Science II: Data Structures _____ 4 _____
 CS 243 Software Engineering _____ 4 _____
 CS 315 Design & Analysis of Algorithms _____ 3 _____
 One CS elective from reverse side (4 S.H.)
 CS _____ 4 _____

III. FREE ELECTIVES+

Foreign Language Requirement Completed: Yes _____ No _____
+ Minimum of 122 S.H. including HPX 177 for B.A. Degree

Number	Title	Credits
_____	_____	_____
_____	_____	_____

**Foreign Language Requirement Met Through
 High School Exemption: Yes _____ No _____**

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Total Transfer Credits _____

*General education requirements at Western total 42 semester hours. In some instances, work toward a major program partially fulfills general education requirements. The remaining general education requirements for this program are shown above. 7/01, 7/04, 6/09, 6/26/09