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10-7-2004

CSCI 3511 Course Proposal 10/07/2004

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Electronic Course Authorization System (ECAS)

CSCI 3511 - VIEW COURSE PROPOSAL – NEW COURSE

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Approvals Received:	Department on 09-17-04 by Carol Ford (fordcj@umn.edu)	Curriculum Committee on 10-7-04 by Karen Van Horn (vanhornk@umn.edu)
Approvals Pending:	Curriculum Committee > Campus Assembly > Catalog	
Effective Status:	Active	
Effective Term:	1059 - Fall 2005	
Course:	CSCI 3511	
Institution:	UMNMO - Morris	
Career:	UGRD	
College:	MDSM - UMM-Science & Math, Div of	
Department:	242 - UMM-Sci & Math, Div of-Adm	

General

Course Title Short:	Intro to Bioinformatics
Course Title Long:	Introduction to Bioinformatics
Max-Min Credits for Course:	4.0 to 4.0 credit(s)
Catalog Description:	Introduction to computational problems arising from molecular biology and genetics. Development and application of algorithmic solutions to these problems. Topics may include sequence analysis, pairwise and multiple sequence alignment, construction of phylogenetic histories, and protein structure and folding. Intro to on-line genomics databases.
Additional Course Information (for catalog production):	Offered when feasible
Grading Basis:	Stdnt Opt
Honors Course:	No
Delivery Mode(s):	Classroom
Years most frequently offered:	Other frequency
Term(s) most frequently offered:	Fall, Spring

<u>Component 1:</u>	LEC (with final exam)
<u>Auto-Enroll Course:</u>	No
<u>Graded Component:</u>	LEC
<u>Academic Progress Units:</u>	Not allowed to bypass limits. 4.0 credit(s)
<u>Financial Aid Progress Units:</u>	Not allowed to bypass limits. 4.0 credit(s)
<u>Repetition of Course:</u>	Repetition not allowed.
<u>Course Prerequisites for Catalog:</u>	CSci 2101, Biol 2111, Chem 1102
<u>Course Equivalency:</u>	No course equivalencies
<u>Consent Requirement:</u>	No required consent
<u>Enforced Prerequisites (course-based or non-course-based)</u>	No prerequisites
<u>Editor Comments:</u>	<no text provided>
<u>Proposal Changes:</u>	<no text provided>
<u>History Information:</u>	<no text provided>
<u>Assessment and Goals:</u>	Students will be assessed using a combination of exams to test their understanding of the factual material from various fields, projects to show their ability to apply those ideas to real data, and reports and presentations showing their ability to independently research relevant topics and summarize and present their findings.
<u>Rationale for Changes or Exceptions:</u>	THE DISCIPLINE IS INTERESTED IN OFFERING MORE INTERDISCIPLINARY COURSES AND WE THINK THIS WOULD BE A GOOD OPTION FOR STUDENTS INTERESTED IN COMPUTING IN THE BIOLOGICAL FIELD.

General Education

<u>Faculty Sponsor Name:</u>	Nic McPhee
<u>Requirement this course fulfills:</u>	M/SR - M/SR Mathematical/Symbolic Reasoning
<u>Provisional Approval:</u>	No

**Regular
Approval:**

Yes; date: Sept 30, 2004