Curricular Action Workflow





Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - New Course Proposal Form

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Submitted on	10/25/2017 by	William Bray (<u>WBray@Misso</u>	uriState.edu).		
.ll fields require i	nput				
New COURS	SE .				
○ New REGUL below	AR PERMANENT SECT	FION of an existing variable content course. I	If a new regular section of a	n existing variable topics course, e	onter the existing course number
Course Code:		Course Number:	(Check Availability)		
Course Title: Precalculus 1					
Will this proposal need	d to be reviewed by CG	EIP? O No 3 Yes			
Will this proposal need	d to be reviewed by EP	PC? ® No ĈYes			
Prerequisite/Co-requis Suitable placemen	LE FORD WESTERNING	ematics placement exam or a grade of	C or better in MTH 101	or 103,	
This course is part representations of exponential, and it (MTH 261). Grade	t one of a two cours functions. The foct ogarithmic functions of C or better requi	es/Not Pass grading restrictions, repeatable les sequence with emphasis on the analysis of the course is on the library of alges) along with higher algebraic reasoning to enroll in MTH 137 or MTH 287. Count count toward the mathematics mannet count toward the mathematics mathematics mannet count toward the mathematics mannet count to the count toward the mathematics mannet count toward the mathematics mannet count to the count toward the mathematics mannet count toward the mathematics mannet count to the count toward the mathematics mannet count toward the math	ytic, graphical, and nume sbraic functions (polyno g in preparation for the credit will not be given fo	rical mial, rational, study of Calculus r both MTH 136	, etc.)
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Credit Hours:	3	Lecture Contact Hours:	3	Lab Contact Hours:	0
Vote: If variable credit	t, enter the highest nun	nber and add to end of course description. (e	e.g. "Variable credit, may be i	taken 1-3 hours.")	

Periodicity. Check all that apply.

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a	Spring		Spring (even-numbered years only)		Spring (odd-numbered years o	cylne
Ø	Summer	D	On Demand only		·	
MTH 136 F Prerequisit This cours algebraic for better re Cannot be Credit hour Typically o	e is part one of a two unctions (polynomial, equired to enroll in M' taken Pass/Fail. rs: 3 Lecture contact if ffered: Fall, Spring, Su nple syllabus (list top	t score on the course seque rational, expe I'H 137 or MTI hours: 3 Lab o mmer	e mathematics placement exam or a grade of C ince with emphasis on the analytic, graphical, a pnential, and logarithmic functions) along with H 287. Credit will not be given for both MTH 13 contact hours: O	and numerical represent I higher algebraic reason 36 and 138, or both MTH	ations of functions. The focus of the cou ing in preparation for the study of Calcu	ilus (MTH 261). Grade of C
Student: General to provic function Relationshi Needed	can take this cou Education. This co le students whose s and reasoning. p to Other Departmen in all STEM fields a MTH 261 in their	urse will me program of nts and will repl program of	the Focus on Quantitative Literacy port set Goal 5 of the MSU General Education study requires Calculus (MTH 261) with ace the role of MTH 135 College Algebra study. urse to this one? No C Yes	Learning Goals. The	course is designed ary algebraic	
lew Cours	e Resource İnfo	rmation				
Anticipated	Average Enrollment	per section:	35	Maximum Enrollment	Limit per section:	60
Anticipated	Average Enrollment	per semester	300	Maximum Enrollment	Limit per semester:	400
Anticipated	Average Enrollment	per year:	600	Maximum Enrollment	Limit per year:	700
Faculty Los	d Assignment (equat	ed hours):	30			
Is another o	ourse being deleted?	® No ⊜ Y	'es			
What will t	his course require in	the way of:			•	
	Additional libr	ary Holdings				

Additional computer resources
NONE
Additional or remodeled facilities
NONE
Additional equipment or supplies
NONE
Additional travel funds
NONE CONTROL OF THE C
Additional faculty; general vs specialized
NONE
Additional faculty, regular vs per-course
NONE
Other additional expenses
NONE
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If additional faculty are not required, how will faculty be made available to teach this course?

This course replaces MTH 135 College Algebra for students in STEM fields, Hence, part of current instructional staff teaching MTH 135 will teach MTH 136.

List names of current faculty qualified and available to teach this course

Any of our current instructors including: Blanton, Brown, Bunn, Carr, Stand-Hawkins, Shea, Sherrill, Stafford, Sherrill, Sun, Tripi, Van Ornum, Zhou.

What is the anticipated source of students for this course?

Any fields/majors requiring student pursue the study of Calculus (MTH 261).

If from within the department, will students be taking this course in addition to or in place of other courses?

All mathematics majors are required to take MTH 261--MTH 136 along with MTH 137 (new course) will provide one pathway to MTH 261 for students not prepared to begin their studies in MTH 261.

If from outside the department, which courses in other departments would most likely be affected?)

Any departments that currently require their students take MTH 261: Biology, Chemistry, Geology, Physics, Engineering.

Other comments

This course was designed to satisfy the learning outcomes for the STEM pathway as established by the Missouri Mathematics Pathways Taskforce and will be part of the 42 hour common block of transfer courses within the State of Missouri. As such, it replaces MTH 135 College Algebra for all majors, in particular STEM majors, requiring MTH 261 as part of their program of study.

What is the date that this new course was approved by departmental or program faculty? (MM/DD/YYYY)

09/27/2017

Current Status:

College Council Review

Proposal Progress:

10/25/2017 - Submitted by Department Head (William Bray)

Review Comments:

No comments have been added to this proposal.



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MTH 136 Precalculus 1 (Generic) Syllabus & Policy Statement

Instructor Name, Contact Information & Office Hours (mandatory on all syllabi and policy statements)

Type of Course: General Education—Foundations: Focus on Quantitative Literacy

Prerequisites: Suitable score on the mathematics placement exam or a grade of C or better in MTH 101 or MTH 103.

Description: This course is part one of a two course sequence with emphasis on the analytic, graphical, and numerical representations of functions. The focus of the course is on the library of algebraic functions (polynomial, rational, exponential, and logarithmic functions) along with higher algebraic reasoning in preparation for the study of Calculus (MTH 261). Grade of C or better required to enroll in MTH 137 or MTH 287. Credit will not be given for both MTH 136 and 138 or for both MTH 136 and 135. Cannot count toward the mathematics major or minor. Cannot be taken Pass/No Pass.

Philosophy of the Course: The course is designed to provide students whose program of study requires Calculus (MTH 261) with a mastery of necessary algebraic functions and reasoning.

Purpose of the Course: Students can take this course to meet the Focus on Quantitative Literacy portion of the Foundations requirement in General Education. This course will meet Goal 5 of the MSU General Education Learning Goals:

General Goal (5): Students will be able to reason and solve quantitative problems from a wide array of contexts and everyday life situations; understand and create logical arguments supported by quantitative evidence; and clearly communicate those arguments in a variety of formats (e.g., words, tables, and mathematical equations) as appropriate.

This is achieved through the following student learning outcomes (SLO):

- SLO 5.1. Interpret and communicate information presented in mathematical forms (e.g., equations, functions, graphs, diagrams, tables, or words).
- SLO 5.2. Convert relevant information into various mathematical forms (e.g., equations, functions, graphs, diagrams, tables, or words).
- SLO 5.3. Calculate numerically and symbolically to solve a problem.
- SLO 5.4. Analyze data quantitatively as the basis for competent, valid, and reliable inferences in order to draw reasonable and appropriate conclusions.
- SLO 5.5. Use appropriate mathematical tools to explicitly describe assumptions, mathematical relationships, and conclusions.
- SLO 5.6. Express evidence in support of an argument by employing an appropriate form of presentation (e.g., equations, functions, graphs, diagrams, tables, or words).



Required Textbook: Precalculus: Functions and Graphs, by Swokowski and Cole, 12th edition.

Additional Course Materials: Along with the required textbook, the instructor and students will use written and on - line sources to explore particular topics in more depth.

Content Learning Objectives & Connection with General Education. The course meets the above SLOs though the following content learning objectives.

I. Foundations of Functions. (SLO 5.1, 5.2, 5.5, 5.6)

Students will use multiple representations of different function types to investigate quantities and describe relationships between quantities. Specifically, students will be able to:

- 1. Use multiple representations of functions to interpret and describe how two quantities change together.
- 2. Measure, compute, describe and interpret rates of change of quantities embedded in multiple representations.
- 3. Use appropriate tools and representations to investigate the patterns and relationships present in multiple function types.

II. Analysis of Functions. (SLO 5.1, 5.2, 5.3, 5.5, 5.6)

Students will describe characteristics of different function types and convert between different representations and algebraic forms to analyze and solve meaningful problems. Specifically, students will be able to:

- 1. Create, use and interpret linear equations and convert between forms as appropriate.
- 2. Create, use and interpret exponential and logarithmic equations and convert between forms as appropriate.
- 3. Create, use and interpret polynomial, power and rational functions.
- 4. Construct, use and describe transformations, operations, compositions and inverses of functions.

III. Algebraic Reasoning. (SLO 5.1, 5.2, 5.3, 5.5, 5.6)

Students will identify and apply algebraic reasoning to write equivalent expressions, solve equations and interpret inequalities. Specifically, students will be able to:

- 1. Use algebraic techniques to simplify expressions and locate roots.
- Use algebraic reasoning to simplify a variety of expressions and find roots of equations involving multiple function types.
- 3. Use rational exponents to express and simplify a variety of expressions and solve equations.
- 4. Solve and apply systems of equations and inequalities.

Assessment of Specific Learning Outcomes

Student success of the specific learning outcomes will be assessed through a variety of means. The assessment tools include, but are not limited to, homework (written and/or online), quizzes (written and/or online), tests (written and/or online), and a common (across all sections of the class) written final exam.



The overall course grade will be weighted as follows: 60% in-class exams (at least three); 25% Final exam; 15% other (homework, quizzes, etc., at the discretion of the instructor). The section instructor will assign final course letter grades based on the overall weighted grade as follows: 90-100% A; 80-89% B; 70-79% C; 60-69% D; below 60% F. Precalculus 1 (MTH 136) instructors do not use plus/minus grading option.

Attendance. Due to the nature of this course, attendance to each class is critical and will be recorded. Any student missing two classes in the first two weeks of class may be dropped from the course by the instructor. Students should make every effort to be in attendance at each session. In the event that you must miss class,, you should contact the instructor for any items that were distributed during class. You should also contact a classmate to get any missed notes. In the event that the absence occurred on the day of an exam, see below.

Other required policies as per the Provost's office will be put into all syllabi and policy statements including: Academic Integrity, Dropping the Class, Statement of Nondiscrimination, Statement on Disability Accommodation, Cell Phone Use Policy, and Emergency Response Statement.



Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - New Course Proposal Form

New Course Proposal Form Submitted on 10/25/2017 by William Bray (WBray@MissouriState.edu). *All fields require input New COURSE New REGULAR PERMANENT SECTION of an existing variable content course. If a new regular section of an existing variable topics course, enter the existing course number Course Code: Course Number: (Check Availability) Course Title Precalculus 2 Will this proposal need to be reviewed by CGEIP? Will this proposal need to be reviewed by EPPC? Prerequisite/Co-requisite or enter 'None': MTH 136 or suitable score on the Mathematics placement exam General Course Description: (Include any Pass/Not Pass grading restrictions, repeatable limits, limitation on course applicability, UG/GR parallel course, etc.) This course is part two of a two course sequence with emphasis on the analytic, graphical, and numerical representations of functions. The focus of the course is on the library of trigonometric functions along with higher algebraic and geometric reasoning in preparation for the study of Calculus (MTH 261). Grade of C or better required to enroll in MTH 261. Credit will not be given for both MTH 137 and 138 or MTH 137 and 181. Cannot count toward the mathematics major or minor. Cannot be taken Pass/Fail. Students who place into MTH 137 and pass with a C or better automatically satisfy the Quantitative Literacy requirement under General Education. Lecture Contact Hours: Lab Contact Hours: Note: If variable credit, enter the highest number and add to end of course description. (e.g. "Variable credit, may be taken 1-3 hours.")

Periodicity. Check all that apply.

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প্র	Spring			•			
	Spring		Spring (even-numbered years only)			Spring (odd-numbered years only)	
Ø	Summer		On Demand only				•
Complete	Catalog Description	יתי		•			•
MTH 137	Precalculus 2		the Mathematics placement exam.				
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Purpose o	f Caurea						
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	Additional o	omputer reso	ources			•	

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Proposal Progress:

10/25/2017 - Submitted by Department Head (William Bray)

Review Comments:

No comments have been added to this proposal.



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MTH 137 Precalculus 2 (Generic) Syllabus & Policy Statement

Instructor Name, Contact Information & Office Hours (mandatory on all syllabi and policy statements)

Prerequisites: Grade of C or better in MTH 136, or suitable score on the mathematics placement exam.

Description: This course is part two of a two course sequence with emphasis on the analytic, graphical, and numerical representations of functions. The focus of the course is on the library of trigonometric functions along with higher algebraic and geometric reasoning in preparation for the study of Calculus (MTH 261). Grade of C or better required to enroll in MTH 261. Credit will not be given for both MTH 137 and 138 or MTH 137 and 181. Cannot count toward the mathematics major or minor. Cannot be taken Pass/Fail. Students who place into MTH 137 and pass with a C or better automatically satisfy the Quantitative Literacy requirement under General Education.

Required Textbook: Precalculus: Functions and Graphs, by Swokowski and Cole, 12th edition.

Additional Course Materials: Along with the required textbook, the instructor and students will use written and on - line sources to explore particular topics in more depth.

Content Learning Outcomes. The following provide the broad content learning outcomes for students in this course.

I. Trigonometric Functions.

- 1. Demonstrate and understanding of the definitions of the basic trigonometry functions and their relation to geometry through right triangles and the unit circle.
- 2. Identify important properties of the graphs of trigonometric functions and their behavior under transformations.
- 3. Define and analyze the inverse trigonometric functions.

II. Algebraic and Geometric Reasoning

- 1. Develop and use trigonometric identities.
- 2. Solve equations involving trigonometric functions.
- 3. Understand and apply the Law of Sines and Law of Cosines.
- 4. Understand and apply the trigonometric functions in the study of vectors and polar coordinates.

Grades. The overall course grade will be weighted as follows: 60% in-class exams; 25% Final exam; 15% other (homework, quizzes, etc., at the discretion of the instructor). The section instructor will assign final course letter grades based on the overall weighted grade as follows: 90-100% A; 80-89% B; 70-79% C; 60-69% D; below 60% F.



Attendance. Due to the nature of this course, attendance to each class is critical. Students should make every effort to be in attendance at each session. In the event that you must miss class,, you should contact the instructor for any items that were distributed during class. You should also contact a classmate to get any missed notes. In the event that the absence occurred on the day of an exam, you must contact the instructor beforehand to arrange a makeup.

Other required policies as per the Provost's office will be put into all syllabi and policy statements including: Academic Integrity, Dropping the Class, Statement of Nondiscrimination, Statement on Disability Accommodation, Cell Phone Use Policy, and Emergency Response Statement.

Curricular Action Workflow

Change Course Proposal Form



Computer Services

Missouri State > Computer Services - MIS > Curricular Action
Workflow > CAW - Change Course Proposal Form

		/25/2017 by Wi	illiam Bray (Wi	Bray@Misso	uriState.edu).			
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evise the cui submission.) MTH 138 P Prerequisits mathemat for calculus better is re- represent library of grade of C	B a re-Calculus re: "C" grad tics placer s. Cannet re squired in the ations of f trigonomes or better	Mathematics le or better in MTH 1 ment exam. Genera eccive credit toward his course in order to functions. The focu etric functions, and required to enroal	01 or MTH 103 (Red l Education Course graduation for both o take MTH 261, 28 us is on the library d a high level of a l in MTH 261 or 28	commended: "B" (Focus on Quanti 1-MTH 138 and M 17, CSC 125 or 13 y of algebraic fr Igebraic and ge 87. Cannot rece	grade or better in M itative Literacy). Sel TH 135. Cannot cou 31. The course has unctions (polynom sometric reasoning live credit for both	ITH 101 or MTH 103), or ected topics in algebra a nt toward a mathematics emphasis on the analy ial, rational, exponent j in preparation for the	appropriate placemend trigonometry to primajor or milnor. A gritic, graphical, and isal, and logarithmic study of Calculus	nt score on the epare the stude ade of "C" or numerical functions), (MTH 261). /

What i	s changing? Check all boxes that app	ly.						2
	Course Code	Ð	Course Number (<u>Check Availability</u>)		Title		Prerequisite	ں ســــــ
ВÌ	Credit Hours/Contact Hours		Periodicity	2 1	Description			
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3,000	Change in prerequisite is to enfo	\$102 pt 122 pt 122 pt 1	ESCHALL STREET, CONTROL OF STREET, STR					
Does	this change affect course assessme	nt (e.g. stude	nt learning evidence/outcomes)? ③ No 🗅	Yes	•			•
How di	d you determine the need for this ch	ange? Check	all boxes that apply or specify other.					
Ø	Routine or annual review/assessme	ent of curricul	um	П.	Faculty Input	Ð	Student Input	
	Accreditation/certification complia	nce			Review of catalog	information	•	
Ø	Other (be specific): Primary rea	son is to br	ing the course description in line with	hose of our n	ew courses MTH1	36 and 137,	j az	
Ø	Check if this is a non-substantive of	hange.	4		·			
What is	the date that this course change wa	s approved b	y departmental or program faculty? (MM/DD	/YYYY)		09/27/2	017	
urrent	Status:						·	
ollege	Council Review			•		at .		
roposa	al Progress:							
0/25/20	017 - Submitted by Departmen	it Head (W	illiam Bray)	,				
eview	Comments:			- -				
o comi	ments have been added to this	s proposal.						
						-		

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Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Course Proposal Form

Submitted on 10/24/2017 by Robin Powell (Robinpowell@missouristate.edu). *All fields require input This proposal applies to: An existing REQULAR (e.g. permanent) SECTION of a variable content course. Existing Course: CSC450 introduction to Software Engineering Will this proposal need to be reviewed by COEIP? No Ves Will this proposal need to be reviewed by COEIP? No Ves Will this proposal need to be reviewed by EPPC? No Ves Current online caralog description: CSC 450 introduction to Software Engineering Personalistic CSC 544 Physiolisms techniques and tools used to effect the credity production of medium and large selection of medium and larg	Change Course Pr	oposal Fo	rm				
This proposal applies to: An existing COURSE An existing COURSE An existing COURSE An existing COURSE Existing Course: CSCA56 Introduction to Software Engineering Will this proposal need to be reviewed by COEIP? No Yes Percequisite CSC 344 Principles, techniques and tools used to effect the orderly production of medium and large scale computer programs will be studied. These techniques will be applied to programming project. 3(3-0) E evise the current online catalog description as needed. Strikethrough all districts and insert/hold new information. Any content that is copied and pasted will use existing formatting, please review as the current online catalog description as needed. Strikethrough all districts and insert/hold new information. Any content that is copied and pasted will use existing formatting, please review as the current online catalog description as needed. Strikethrough all districts and insert/hold new information. Any content that is copied and pasted will use existing formatting, please review as the current online catalog description as needed. Strikethrough all districts and insert/hold new information. Any content that is copied and pasted will use existing formatting, please review. SCSC 450 Introduction to Software Engineering Procrequisite: CSC 344. Principles, techniques and tools used to effect the orderly production of medium and large scale computer programs will be studied. The change of a programming project. 3(3-0) 4(4-0) F techniques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3-0) 4(4-0) F	Submitted on 10/24/2017 by I	Robin Powell (Ro	obinpowell@misso	ıristate.edu).		
An existing COURSE An existing REGULAR (e.g. permanent) SECTION of a variable content course. Existing Course: CSCA50 introduction to Software Engineering All this proposal need to be reviewed by CGEIP? No Yes We have the current online catalog description: CSC A50 introduction to Software Engineering Perceptuisite: CSC 344. Principles, techniques and tools used to effect the orderly production of medium and large scale computer programs will be studied. These techniques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3.0) E We the current online catalog description as needed: Citrisethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting, please new submission. CSC 450 Introduction to Software Engineering Perceptuisite: CSC 344. Principles, techniques and tools used to effect the orderity production of medium and large scale computer programs will be studied. The control of the control of the programming project. 3(3.0) E CSC 450 Introduction to Software Engineering Perceptuisite: CSC 344. Principles, techniques and tools used to effect the orderity production of medium and large scale computer programs will be studied. The control of the programming project. 3(3.0) E The programming project and the programming projects with students working in teams and managing all phases of a programming project. 3(3.0) E The programming project and the programming projects and tools used to effect the orderity production of medium and large scale computer programs will be studied. The programming project and the	All fields require input						
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Existing Course: CSC450 Introduction to Software Engineering All this proposal need to be reviewed by CGEIP? No Yes What is proposal need to be reviewed by CGEIP? No Yes What is changing? Check all boxes that apply.	An existing COURSE	÷					
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ill this proposal need to be reviewed by CGEIP? ® No O Yes ill this proposal need to be reviewed by EPPC? ® No O Yes urrant online catalog description: 35C ASO introduction to Software Engineering Prerequisite: CSC 344. Principles, techniques and tools used to effect the orderly production of medium and large scale computer programs will be studied. These techniques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3-0) E evise the current online catalog description as needed: @trikethrough all deletions and insert/boid new information. Any context that is copied and pasted will lose existing formatting, please revisuomission.) A B J G CSC 450 Introduction to Software Engineering Prerequisite: CSC 344. Principles, techniques and tools used to effect the orderly production of medium and large scale computer programs will be studied. The chiques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3-0) F techniques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3-0) 4(4-0) F techniques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3-0) 4(4-0) F	iden distribuit de la companie de l						
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urrent online catalog description: SC 450 Introduction to Software Engineering Prerequisite: CSC 344. Principles, techniques and tools used to effect the orderly production of medium and large case computer programs will be studied. These techniques will be applied to programming projects with students. Working in teams and managing all phases of a programming project. 3(3-0) F. Servise the current online catalog description as needed: (Strikethrough all deletions and insert/bold new information. Any content that is copied and pasted will lose existing formatting; please review by B. J. S. CSC 450 Introduction to Software Engineering Prerequisite: CSC 344. Principles, techniques and tools used to effect the orderly production of medium and large scale computer programs will be studied. The techniques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3-0) 4(4-0)F. The techniques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3-0) 4(4-0)F. The techniques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3-0) 4(4-0)F.	ill this proposal need to be reviewed by EPP	C? ® No ○ Yes					
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CSC 450 Introduction to Software Engineering Prerequisite: CSC 344. Principles, techniques and tools used to effect the orderly production of medium and large scale computer programs will be studied. The techniques will be applied to programming projects with students working in teams and managing all phases of a programming project. 3(3-0) 4(4-0)F The tis changing? Check all boxes that apply.	= = =	as needed: (Strikethrough	all deletions and insert/bold new in	oformation. Any conte	ent that is copied and	pasted will lose exi	sting formatting; please review p
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☐ Course Code ☐ Course Number (<u>Check Availability</u>) ☐ Title ☐ Prerequisite	/hat is changing? Check all boxes that apply.					•	
	Course Code	☐ Course N	umber (<u>Check Availabilit</u> y)		Title		Prerequisite

To re	n for proposed change flect the actual work involved in the course projects in addition to the reg ots include the full development of a madium size software.	ular classroom teach	ing activities.		(4
Does	s this change affect course assessment (e.g. student learning evidence/outcomes)?	No ○ Yes			
How di	d you determine the need for this change? Check all boxes that apply or specify othe	r.			
M	Routine or annual review/assessment of curriculum	Ŋ	Faculty Input		Student Input
	Accreditation/certification compliance		Review of catalog	ı information	
a	Other (be specific):			o pago sergi Sergio dell'acció	1003 2006
O .	Check if this is a non-substantive change.				
What is	the date that this course change was approved by departmental or program faculty:	(MM/DD/YYYY)		10/20/2	017
urrent	t Status:				
ollege	Council Review			·	
ropos	al Progress:				e e e e e e e e e e e e e e e e e e e
0/24/2	017 - Submitted by Department Head (Jorge Rebaza-Vasquez)				
waive	Comments:				
lo com	ments have been added to this proposal.				
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Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Program Proposal Form

Change Program Proposal Form

Department:		
Computer Science		
Type of Program		
Choose One:		
Major (Non-Comprehensive/Graduate	Minor	Academic Rules
Program)	 Certificate 	் Other
O Comprehensive Major	O carifferentian	
Option	 Certification 	•
·		•
Choose All That Apply:		
Bachelor of Arts	☐ Bachelor of Music Education	man at the state of the state o
Ma pachelol of Arts	☐ Bachelor of Music Education	☐ Bach of Science in Athl Traing
☐ Bachelor of Applied Science	☐ Bachelor of Music	Bach of Science in Education
☐ Bachelor of Fine Arts	☑ Bachelor of Science	☐ Bachelor of Science in Nursing
Bachelor of Social Work		
litle of Program Affected:		

Current Catalog Description: (Either cut and paste present description from online catalog OR provide as an attachment below)

Minor(s) Computer Science		5
Bachelor of Arts		
CSC 130(3); and CSC 121(3) or 125(4) or 131(4) Nine additional hours from eligible CSC cour) ses numbered 232 or higher to bring total hours in	minor to at least 15.
Courses not eligible: CSC 399, 500, 505, and 510.		
Computer Science		
Bachelor of Science A. CSC 130(3); and CSC 121(3) or 125(4) or 131(4)		
	s numbered 232 or higher to bring total hours in n	ninor to at least 12.
Courses not eligible: CSC 399, 500, 505, and 510.		Not Attached
Complete New Catalog Description: (Either pro	vide the revised description in the text area below [stri	kethrough all deletions and insert/bold new information - any
content that is copied and pasted will lose existing form	natting; please review prior to submission] OR provide a	s an attachment below)
* * B I S		
Minor(s) Computer Science		
Bachelor of Arts A. CSC 130(3); and CSC 121(3) or 125(4) or CSC 130(3); and CSC 121(3) or 125(4) or CSC 130(3); and CSC 121(3) or 125(4) or CSC 121(3) or CSC 121(to bring total hours in minor to at least 45 17, with no more
than 3 hours in CSC 399. Courses not eligible: 6		
Computer Science Bachelor of Science A. CSC 130(3); and CSC 121(3) or 125(4) or CSC 130(3);		
B. Six additional hours from eligible CSC course hours in CSC 399. Courses not eligible: CSC 399.		ng total hours in minor to at least 42-17, with no more than 3
		.4
Not Attached		·
		Total Hours: 17
What is changing? Check all boxes that appl	y:	
☐ Title change	☐ From option to program (major)	□ Other
☑ Course changes of under 18 hours	☐ From program (major) to option	in the action of the control of the
☐ Course changes of 18 hours or more		
Reason for Proposed Change:		
To align minor with the basic core requirements industry needs.	n the computer science program, and to better ma	tch students with
[musty, leads]		
What is the date that this new program was	approved by departmental or program facult	y? (MM/DD/YYYY)
10/20/2017		
Current Status:		
College Council Review		
-		
Proposal Progress:	•	

10/31/2017, 3:12 PM

10/24/2017 - Submitted by Department Head (Jorge Rebaza-Vasquez)

Review Comments:

No comments have been added to this proposal.



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Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Program Proposal Form

Change Program Proposal Form

Submitted on 10/24/2017 by Robin	Powell (Robinpowell@misso	ouristate.edu).
Department:		
Computer Science		
Type of Program Choose One:		
Major (Non-Comprehensive/Graduate Program)	○ Minor ○ Certificate	Academic Rules Other
O Comprehensive Major	ः Certification	
Option		
Title of Program Affected:		
Computer Science/Computer Science-BS		

Current Catalog Description: (Either cut and paste present description from online catalog OR provide as an attachment below)

Computer Science (Non-Comprehensive)

Bachelor of Science

- A. General Education Program and Requirements
- B. Major Requirements
- 1, CSC 130(3), 131(4), 232(4), 335(3), 338(2), 344(3), 365(3), 388(2), 450(3), 482(1)
- Select nine additional hours from CSC 300; CSC 399; MTH 421 or CSC 421; or CSC courses numbered 500 or higher with at least six hours from courses other than CSC 399 and CSC 596
- 3. Related mathematics requirement: MTH 215(3) or MTH 261(5)*
- 4. Related science requirements: select at least four hours from the following: BIO 121(4)*, BMS 110(3)* and 111(1)*; CHM 116(4) and CHM 117(1); CHM 160(4) and CHM 161(1); GLG 110(4), GRY 135(4), GRY 142(4) Other science and mathematics courses may be acceptable with department approval.
- 5. Public Affairs Capstone Experience will be fulfilled by completion of CSC 335(3), 365(3), and 482(1).
- 6. Select one of the following options:
 - a. Computer Science
 - 1. CSC 325(3), 333(2)
- Additional related mathematics requirements: 11-13 hours from MTH 215(3), 261(5)*, 280(5), 345(3), 540(3). Note: These
 required mathematics courses automatically satisfy the requirements for a minor in Mathematics.
 - 3. PHY 203(5)
- 4. Select five additional hours of science or mathematics from the following: BIO 121(4)*; BMS 110(3)* and 111(1)*; CHM 116(4) and CHM 117(1); CHM 160(4) and CHM 161(1); GLG 110(4), GRY 135(4), GRY 142(4); PHY 204(5); and MTH courses numbered 400 or higher. Other science and mathematics courses may be acceptable with department approval.
 - b. Software Development
 - 1. CSC 455(3)
 - 2. Select three additional hours from eligible CSC courses numbered 500 or higher excluding CSC 596.
 - 3. ECO 165(3); PSY 121(3); ENG 321(3). Each of these courses may also count toward General Education requirements.
- 4. Select three additional hours in science courses from the following: BIO 121(4)*, BMS 110(3)* and 111(1)*, CHM 116(4) and CHM 117(1); CHM 160(4) and CHM 161(1); GLG 110(4), GRY 135(4), GRY 142(4), PHY 203(5); and MTH courses numbered 400 or higher. Other science or mathematics courses may be acceptable with department approval.
- Select one of the following: MKT 350(3), MGT 340(3), COM 315(3), PSY 305(3), PSY 481(3). Other courses may be acceptable with department approval.
 - *May also count toward General Education requirements
- C. Minor Required (Note: The "Computer Science" option contains courses that satisfy the requirements for a minor in Mathematics.)
- D. General Baccalaureate Degree Requirements

Not Attached

Complete New Catalog Description: (Either provide the revised description in the text area below [strikethrough all deletions and insert/bold new information - any content that is copied and pasted will lose existing formatting; please review prior to submission] OR provide as an attachment below)

♦ ♦ B I S



No comments have been added to this proposal.



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Curricular Action Workflow



Missouri State > Computer Services - MIS > Curricular Action Workflow > CAW - Change Program Proposal Form

Change Program Proposal Form

Submitted on 10/24/2017 by Robin I	Powell (<u>Robinpowell@m</u>	nissouristate.edu).	
Department:			
Computer Science			
Type of Program Choose One:			
Major (Non-Comprehensive/Graduate	O Minor	O Academic Rules	
Program)	○ Certificate	Other	
Comprehensive Major	ं Certification		
Option Option			
Tials of Business Affantasis			
Title of Program Affected: Computer Science/Software Development-BS			
Comparing Control Software Development Com-			
Current Catalog Description: (Either cut and pas	eta procent decoriation from puling	o estalog AB provido se an attochment below)	
DITE UNIONS SANDARE DEOLEAS AUGUSTAS ASSINGUIDADES A VAITA SUSA	ste present description nom online	e catalog on provide as an attachment below)	
Software Development 1. CSC 455(3)			
2. Select three additional hours from eligible CSC			
3. ECO 165(3); PSY 121(3); ENG 321(3). Each of the 4. Select three additional hours in science course			
CHM 117(1); CHM 160(4) and CHM 161(1); GLG 110			
400 or higher. Other science or mathematics could be selectione of the following: MKT 350(3), MGT 350(
acceptable with department approval.			
*May also count toward General Education regula	ements	Not Att	ached
Complete New Catalog Description: (Either pro	ovide the revised description in the	e text area below [strikethrough all deletions and insert/b	old new information - any
content that is copied and pasted will lose existing formatting; please review prior to submission] OR provide as an attachment below)			

MAKE YOUR

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