CGS Agenda Item: 13-60 Effective: Spring 2014

Eastern Illinois University

NEW/REVISED COURSE PROPOSAL FORMAT (Approved by CAA on 9/29/11 and CGS on 10/18/11, Effective Fall 2011)

This format is to be used for all courses submitted to the Council on Academic Affairs and/or the Council on Graduate Studies.

x New course Revised course

Please check one:

PA	RT I: CATALOG DESCRIPTION
1.	Course prefix and number, such as ART 1000: TEC 5303
2.	Title (may not exceed 30 characters, including spaces): C# Technological Applications
3.	Long title, if any (may not exceed 100 characters, including spaces): C# Technological Applications and the
	.Net Platform
4.	Class hours per week, lab hours per week, and credit [e.g., (3-0-3)]: 3-0-3
5.	Term(s) to be offered: Fall Spring SummerX_ On demand
6.	Initial term of offering: FallX_ Spring Summer Year: 2014
7.	Course description: This course examines the core constructs of the C# Programming Language, including Object Oriented programming with C#, interfaces and approaches to compiling and debugging C# source code files. Technological applications using the .Net platform are covered.
	 a. Equivalent Courses Identify any equivalent courses (e.g., cross-listed course, non-honors version of an honors course)
	 Indicate whether coding should be added to Banner to prevent students from registering for this course if they haven't successfully completed the prerequisite course(s). Yes No If yes, identify the minimum grade requirement and any equivalent courses for each prerequisite course:
	c. Who can waive the prerequisite(s)? No one X Chair Instructor Advisor Other (Please specify)
	d. Co-requisites (course(s) which MUST be taken concurrently with this one):
	e. Repeat status:X_ Course may not be repeated Course may be repeated once with credit.

Please also specify the limit (if any) on hours which may be applied to a major or minor.(3 C. U.s)

	f.	Degree, college, major(s), level, or class to which registration in the course is restricted, if any: Master of Science in Technology
	g.	Degree, college, major(s), level, or class to be excluded from the course, if any:
9.	_	ecial course attributes [cultural diversity, general education (indicate component), honors, remedial, iting centered or writing intensive]
10.	("S	rading methods (check all that apply): X Standard letter CR/NC Audit ABC/NC Standard letter"—i.e., ABCDFis assumed to be the default grading method unless the course description dicates otherwise.)
	Ple	ease check any special grading provision that applies to this course:
		The grade for this course will not count in a student's grade point average.
		The credit for this course will not count in hours towards graduation.
		the student already has credit for or is registered in an equivalent or mutually exclusive course, check y that apply:
		The grade for this course will be removed from the student's grade point average if he/she already has credit for or is registered in (insert course prefix and number).
		Credit hours for this course will be removed from a student's hours towards graduation if he/she already has credit for or is registered in (insert course prefix and number).
11.	Ins	structional delivery method: (Check all that apply.)
		lecture lab lecture/lab combined independent study/research internship performance practicum or clinical study abroad Internet hybrid other (Please specify)

PART II: ASSURANCE OF STUDENT LEARNING

- 1. List the student learning objectives of this course:
 - a. If this is a general education course, indicate which objectives are designed to help students achieve one or more of the following goals of general education and university-wide assessment:
 - EIU graduates will write and speak effectively.
 - EIU graduates will think critically.
 - EIU graduates will function as responsible citizens.

- b. If this is a graduate-level course, indicate which objectives are designed to help students achieve established goals for learning at the graduate level:
 - Depth of content knowledge
 - Effective critical thinking and Problem Solving
 - Advanced scholarship through research or creative activity
 - Effective oral and written communication.

At the end of the course, Students will be able to:

- **1-** Write C# programs using classes.
- **2-** Describe advanced data structures such as strings, regular expressions, and arrays in C#.
- **3-** Discuss how programs are controlled in C#.
- **4-** Build C# programs using encapsulations services, inheritance and polymorphic support.
- **5-** Build technological applications with the advanced keywords of C#.
- **6-** Evaluate and Explain the Philosophy of the .Net platform.

OBJECTIVE	Depth of	Effective critical	Advanced	Effective oral and
	Content	Thinking and Problem	Scholarship research	Written
	Knowledge	Solving	or	Communication
1	X			X
2	X			
3	X	X	X	
4	X	X	X	
5	X	X	X	X
6	X	X	X	X

- 2. Identify the assignments/activities the instructor will use to determine how well students attained the learning objectives: Midterms, Quizzes, Homework Assignments, laboratory Activities, Final project
- 3. Explain how the instructor will determine students' grades for the course:
 - Each activity will weight a specific number of points; the totality of points at the end of the course will determine their grade based on a predetermined scale.

OBJECTIVE	2 MIDTERMS	QUIZZES 10%	HOMEWORK	LABORATORIES	FINAL PROJECT
	(15% each)		ASSIGNMENTS	15%	15%
			30%		
1	X	X	X	X	
2	X	X	X	X	
3	X	X	X	X	
4	X	X	X	X	
5		X	X	X	X
6		X	X		X

- 4. For technology-delivered and other nontraditional-delivered courses/sections, address the following:
 - a. Describe how the format/technology will be used to support and assess students' achievement of the specified learning objectives:

Four, 8 hour, weekend face-to-face sessions will be scheduled. During the first session student will have introductory lectures as well an ample discussion of the objectives and mechanics of the course. In between face-to-face sessions, students will be guided by EIU's Learning Management System (LMS) applications as well as traditional student-professor contact methods (e-mail, telephone calls)

- **b.** Describe how the integrity of student work will be assured:

 Exams will be face-to-face supervised by the instructor. Final Projects will be assigned on an individual basis.
- c. Describe provisions for and requirements of instructor-student and student-student interaction, including the kinds of technologies that will be used to support the interaction (e.g., e-mail, web-based discussions, computer conferences, etc.): e-mail, LMS, Skype, telephone calls
- 5. For courses numbered 4750-4999, specify additional or more stringent requirements for students enrolling for graduate credit. These include:
 - a. course objectives;
 - b. projects that require application and analysis of the course content; and
 - c. separate methods of evaluation for undergraduate and graduate students.
- 6. If applicable, indicate whether this course is writing-active, writing-intensive, or writing-centered, and describe how the course satisfies the criteria for the type of writing course identified. (See Appendix *.)

PART III: OUTLINE OF THE COURSE

Provide a week-by-week outline of the course's content. Specify units of time (e.g., for a 3-0-3 course, 45 fifty-minute class periods over 15 weeks) for each major topic in the outline. Provide clear and sufficient details about content and procedures so that possible questions of overlap with other courses can be addressed. For technology-delivered or other nontraditional-delivered courses/sections, explain how the course content "units" are sufficiently equivalent to the traditional on-campus semester hour units of time described above.

	Subjects	Activities	Total*
			Hours
MODULE	-C# fundamentals I: Value, Reference types, command	Face-to-face Activities	
1	line parameters, creating objects.		8
	-C# fundamentals II: System Data Types, for loop, for-	-Lectures.	
	each/in-loop, while and do (control flow constructs)	-Guided Group work.	
	-C# Fundamentals III: Array manipulations and array	-Individual activities and	
	parameters.	presentations.	
MODULE		LMS based Direct Student-	5
2	-Object-Oriented Programming with C# (I)	Instructor contact:	
		-Discussions	
	-Object-Oriented Programming with C# (II)	-Technology delivered	
		Presentations.	
		- Chat based Instructor-	
		students contact	

MODULE		Face-to-face Activities	8
3	-Building C# Technological Applications (I)		
		-Lectures.	
	-Building C# Technological Applications (II)	-Guided Group work.	
		-Individual activities and	
		presentations.	
MODULE		LMS based Direct Student-	5
4	- Building C# Technological Applications (III)	Instructor Contact:	
		-Discussions	
	-Implementing Interfaces Using C#	-Technology delivered	
		Presentations.	
	-Implementing Interfaces Using C#	- Chat based Instructor-	
		students contact.	
MODULE		Face-to-face Activities	8
5	-Special Topics in C# programming: Structs and		
	Indexers. Final Project Assignments.	-Lectures.	
		-Guided Group work.	
	-Special Topics in C# programming: Security/threading	-Individual activities and	
		presentations.	
MODULE		LMS based Direct Student-	5
6	Net platform basics (I)	Instructor Contact:	
		-Discussions	
	Net platform basics (II)	-Technology delivered	
		Presentations.	
		- Chat based Instructor-	
		students contact.	
MODULE	Final Project Presentation/submission Discussion	Final Face-to-Face Session:	4
7		-Final Project	
		Presentation/submission	
		-Discussion	

^{*60} minutes hours

PART IV: PURPOSE AND NEED

- 1. Explain the department's rationale for developing and proposing the course.
 - a. If this is a general education course, you also must indicate the segment of the general education program into which it will be placed, and describe how the course meets the requirements of that segment.
 - b. If the course or some sections of the course may be technology delivered, explain why.

The course is a technological programming application; it will fulfill the need of an object oriented programming language that is required for many technology graduates in the market. Once the student is introduced to the basics of the C# language the course in the first two face-to-face meetings, most of the work can be done in a technology delivered fashion. However, the two final face-to-face sessions will be mostly devoted to exams, final project presentations, laboratories and working in the final project.

2. Justify the level of the course and any course prerequisites, co-requisites, or registration restrictions.

Course is a graduate course intended to give post-graduate proficiency in understanding technological applications related with C# language.

- 3. If the course is similar to an existing course or courses, justify its development and offering. NO similar course exists yet at EIU
 - a. If the contents substantially duplicate those of an existing course, the new proposal should be discussed with the appropriate chairpersons, deans, or curriculum committees and their responses noted in the proposal.
 - b. Cite course(s) to be deleted if the new course is approved. If no deletions are planned, note the exceptional need to be met or the curricular gap to be filled.

4. Impact on Program(s):

- a. For undergraduate programs, specify whether this course will be required for a major or minor or used as an approved elective.
- b. For graduate programs, specify whether this course will be a core requirement for all candidates in a degree or certificate program or an approved elective. This will be an elective course for the Master of Science in Technology

If the proposed course changes a major, minor, or certificate program in or outside of the department, you must submit a separate proposal requesting that change along with the course proposal. Provide a copy of the existing program in the current catalog with the requested changes noted.

PART V: IMPLEMENTATION

1. Faculty member(s) to whom the course may be assigned: Dr.Rigoberto Chinchilla and other qualified faculty in the School of Technology as assigned by the chair.

If this is a graduate course and the department does not currently offer a graduate program, it must document that it employs faculty qualified to teach graduate courses.

2. Additional costs to students: None

Include those for supplemental packets, hardware/software, or any other additional instructional, technical, or technological requirements. (Course fees must be approved by the President's Council.)

- 3. Text and supplementary materials to be used (Include publication dates):
 - Stellman, A & Green J. (2010) Head First C#, 2E: A Learner's Guide to Real-World Programming with Visual C# and .NET (Head First Guides). O'Reilly Media books.
 - Troelsen, A. Pro C# 5.0 (2010) and the .NET 4.5 Framework. Professional press

PART VI: COMMUNITY COLLEGE TRANSFER

If the proposed course is a 1000- or 2000-level course, state either, "A community college course may be judged equivalent to this course" OR "A community college course will not be judged equivalent to this

course." A community college course will not be judged equivalent to a 3000- or 4000-level course but may be accepted as a substitute; however, upper-division credit will not be awarded.

PART VII: APPROVALS

Date approved by the department or school: February 25, 2013

Date approved by the college curriculum committee: September 16, 2013

Date approved by the Honors Council (if this is an honors course):

Date approved by CAA: CGS:

*In writing-active courses, frequent, brief writing activities and assignments are required. Such activities -- some of which are to be graded – might include five-minute in-class writing assignments, journal keeping, lab reports, essay examinations, short papers, longer papers, or a variety of other writing-to-learn activities of the instructor's invention. Writing assignments and activities in writing-active courses are designed primarily to assist students in mastering course content, secondarily to strengthen students' writing skills. In writing-intensive courses, several writing assignments and writing activities are required. These assignments and activities, which are to be spread over the course of the semester, serve the dual purpose of strengthening writing skills and deepening understanding of course content. At least one writing assignment is to be revised by the student after it has been read and commented on by the instructor. In writing-intensive courses, students' writing should constitute no less than 35% of the final course grade. In writing-centered courses (English 1001G, English 1002G, and their honors equivalents), students learn the principles and the process of writing in all of its stages, from inception to completion. The quality of students' writing is the principal determinant of the course grade. The minimum writing requirement is 20 pages (5,000 words).

Student Success Center

http://www.eiu.edu/~success/

581-6696

Counseling center castern illunois university

http://www.eiu.edu/~counsctr/

581-3413

Career Services

http://www.eiu.edu/~careers/

581-2412

Disability Services

http://www.eiu.edu/~disablty/

581-6583