

MASTER SYLLABUS

Course Discipline Code & No: CPS 295 Title: Advanced C# .Net and ASP.Net
 Effective Term 200701

Division Code: BCT Department Code: CISD Org #: 13400

Don't publish: College Catalog Time Schedule Web Page

Reason for Submission. Check all that apply.

- New course approval
- Three-year syllabus review/ Assessment report
- Course change
- Reactivation of inactive course
- Inactivation (Submit this page only.)

Change information: Note all changes that are being made. Form applies only to changes noted.

- Consultation with all departments affected by this course is required.
- Course discipline code & number (was _____)*
*Must submit inactivation form for previous course.
- Course title (was Advanced Visual C++ Windows Prog.)
- Course description
- Course objectives (minor changes)
- Credit hours (credits were: _____)
- Total Contact Hours (total contact hours were: _____)
- Distribution of contact hours (contact hours were: lecture: _____ lab _____ clinical _____ other _____)
- Pre-requisite, co-requisite, or enrollment restrictions
- Change in Grading Method
- Outcomes/ Assessment
- Objectives/ Evaluation
- Other _____

Rationale for course or course change. Attach course assessment report for existing courses that are being changed.

C# is becoming the dominant programming platform for Microsoft and an important platform for software developers. (See "Reg Developer" article, attached). Our current intermediate C# course is becoming very popular, and students have frequently been asking for an Advanced C# course.

Approvals Department and divisional signatures indicate that all departments affected by the course have been consulted.

Department Review by Chairperson New resources needed All relevant departments consulted

Print: Philip Geyer/Neil Gudsen Signature Philip Geyer Date: 11-22-06
 Faculty/Preparer

Print: Philip Geyer Signature Philip Geyer Date: 11-22-06
 Department Chair

Division Review by Dean

Request for conditional approval

Recommendation Yes No Annmary Wilson Date: 11/27/06
 Dean's/ Administrator's Signature

Curriculum Committee Review

Recommendation Tabled Yes No Dea Veag Date: 3/19/07
 Curriculum Committee Chair's Signature

Vice President for Instruction Approval

Roger M. Palocz Date: 3/28/07
 Vice President's Signature

Approval Yes No Conditional

Do not write in shaded area.
 Log File 4/30/06 Copy Banner 4/5 C&A Database 4/5 C&A Log File 4/5 Basic skills Contact fee

Please return completed form to the Office of Curriculum & Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

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***Complete ALL sections which apply to the course, even if changes are not being made.**

Course: CPS 295	Course title: Advanced C# .Net and ASP.Net
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Credit hours: 4__ If variable credit, give range: _____ to _____ credits	Contact hours per semester: <table style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center; border-bottom: 1px solid black;">Student</td> <td style="text-align: center; border-bottom: 1px solid black;">Instructor</td> </tr> <tr> <td>Lecture:</td> <td style="text-align: center;">_60</td> <td style="text-align: center;">_60</td> </tr> <tr> <td>Lab:</td> <td style="text-align: center;">___</td> <td style="text-align: center;">___</td> </tr> <tr> <td>Clinical:</td> <td style="text-align: center;">___</td> <td style="text-align: center;">___</td> </tr> <tr> <td>Practicum:</td> <td style="text-align: center;">___</td> <td style="text-align: center;">___</td> </tr> <tr> <td>Other:</td> <td style="text-align: center;">___</td> <td style="text-align: center;">___</td> </tr> <tr> <td>Totals:</td> <td style="text-align: center;">___</td> <td style="text-align: center;">___</td> </tr> </table>		Student	Instructor	Lecture:	_60	_60	Lab:	___	___	Clinical:	___	___	Practicum:	___	___	Other:	___	___	Totals:	___	___	Are lectures, labs, or clinicals offered as separate sections? <input type="checkbox"/> Yes - lectures, labs, or clinicals are offered in separate sections <input checked="" type="checkbox"/> No - lectures, labs, or clinicals are offered in the same section	Grading options: <input type="checkbox"/> P/NP (limited to clinical & practica) <input type="checkbox"/> S/U (for courses numbered below 100) <input checked="" type="checkbox"/> Letter grades
	Student	Instructor																						
Lecture:	_60	_60																						
Lab:	___	___																						
Clinical:	___	___																						
Practicum:	___	___																						
Other:	___	___																						
Totals:	___	___																						

Prerequisites. Select one:

College-level Reading & Writing
 Reduced Reading/Writing Scores (Add information at Level I prerequisite)
 No Basic Skills Prerequisite (College-level Reading and Writing is not required.)

In addition to Basic Skills in Reading/Writing:

Level I (enforced in Banner)

Course	Grade	Test	Min. Score	Concurrent Enrollment <small>Can be taken together</small>	Corequisites <small>Must be enrolled in this class also during the same semester</small>
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____	<input type="checkbox"/>	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____	<input type="checkbox"/>	_____

Level II (enforced by instructor on first day of class)

Course	Grade	Test	Min. Score
_____ CPS 293 _____	_C_	_____	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____
<input type="checkbox"/> and <input type="checkbox"/> or _____	_____	_____	_____

Enrollment restrictions (In addition to prerequisites, if applicable.)

and or Consent required
 and or Admission to program required
 and or Other (please specify): _____
 Program: _____

Please send syllabus for transfer evaluation to:
 Conditionally approved courses are not sent for evaluation.
 Insert course number and title you wish the course to transfer as.

<input checked="" type="checkbox"/> E.M.U. as _____	<input type="checkbox"/> _____ as _____
<input type="checkbox"/> U of M as _____	<input type="checkbox"/> _____ as _____
<input type="checkbox"/> _____ as _____	<input type="checkbox"/> _____ as _____

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<p>Course CPS 295</p>	<p>Course title Advanced C# .Net and ASP.Net</p>	
<p>Course description State the purpose and content of the course. Please limit to 500 characters.</p>	<p>This course is a continuation of the CPS 293 C# .Net course, and is intended for students to learn more advanced skills in C#. Class Projects will include many advanced features of Microsoft Visual Studio 2005. There will be a special focus on making full use of the C# Language using XML, Database, Web Services and other technologies. Additional focus will be on creating reusable code, using object oriented techniques such as encapsulation, inheritance, interfaces, delegates and polymorphism.</p>	
<p>Course outcomes List skills and knowledge students will have after taking the course.</p> <p>Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.</p>	<p>Outcomes (applicable in all sections)</p> <ol style="list-style-type: none"> 1. Create object oriented Windows applicatons and custom controls to access and process data from databases, web pages, spreadsheets, etc 2. Create Web User controls and custom controls for web based applications and create web services to access and process data from databases, web pages spreadsheets, etc. 	<p>Assessment Methods for determining course effectiveness</p> <p>Portfolio of programming projects and assignments measured against the project and assignment specifications as well as a rubric of programming standards.</p> <p>Portfolio of programming projects and assignments measured against the project and assignment specifications as well as a rubric of programming standards.</p>
<p>Course Objectives Indicate the objectives that support the course outcomes given above.</p> <p>Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.</p>	<p>Objectives (applicable in all sections)</p> <ol style="list-style-type: none"> 1. Manipulate Strings, and use Regular expressions <ul style="list-style-type: none"> -Find all occurrences of a character in a string -Find all occurrences of a string within another string -Control case sensitivity when comparing two strings. -Removing or replacing characters or words within a string. -Enumerating matches -Use common patterns -Use built-in regular expressions -Use StringBuilder and String Classes in C# 2. Build windows and web forms based applications that can address data in databases,web pages, spreadsheets or other documents with ADO.NET ActiveX Data Objects and with DotNet Controls <ul style="list-style-type: none"> -Build a simple web form -Add controls -Manage session state objects 	<p>Evaluation Methods for determining level of student performance of objectives</p> <p>Assignments and exams</p> <p>Assignments and exams</p>

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	<p>-Implement Drag and Drop in Wondows forms with C#</p> <p>3. Invoke COM (Component Object Model) components within applications written in C# .Net</p> <p>4. Create XML (Externsible Markup Language)aware applications</p> <p>-Read XML on the web</p> <p>-Validate XML</p> <p>-Create XML Document Programmatically</p> <p>5. Create simple DotNet web service</p> <p>-Create a simple XML Web service with Visual Studio .NET that returns a DataSet</p> <p>-Create a .NET client application that uses the DataSet object</p> <p>-Create a Windows application that uses the XML Web service.</p> <p>6. Use asynchronous Javascript and XML (AJAX) to update user interferences</p> <p>7. Use .Net Remoting to allow ojects residing in different application domains to talk to one another.</p>	<p>Assignments and exams</p> <p>Assignments and exams</p> <p>Assignments and exams</p> <p>Assignments and exams</p> <p>Assignments and exams</p>
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List all new resources needed for course, including library materials.
None.

Student Materials:

List examples of types		Estimated costs
Texts Supplemental reading Supplies Uniforms Equipment Tools Software	Visual C# How to Program, Second Edition Deitel and Associates 0-13-152523-9 Students must obtain a copy of C# .Net. We will also need to host a version of MS Server 2003 on a PC set up as a server. We already have licenses for MS Server 2003.	\$ 93.00 - book \$50 - C# .Net

Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)

Check level <u>only</u> if the specified equipment is needed for <u>all</u> sections of a course. <input type="checkbox"/> Level I classroom Permanent screen & overhead projector <input type="checkbox"/> Level II classroom Level I equipment plus TV/VCR <input checked="" type="checkbox"/> Level III classroom Level II equipment plus data projector, computer, faculty workstation	<input type="checkbox"/> Off-Campus Sites <input type="checkbox"/> Testing Center <input checked="" type="checkbox"/> Computer workstations/lab <input type="checkbox"/> ITV <input type="checkbox"/> TV/VCR <input checked="" type="checkbox"/> Data projector/computer <input type="checkbox"/> Other _____
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Assessment plan:

Learning outcomes to	Assessment tool	When assessment will	Course section(s)/other	Number students to be
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be assessed (list from Page 3)		take place	population	assessed
1,2	Portfolio of programming projects and assignments measured against the project and assignment specifications as well as a rubric of programming standards.	Every 3 years. First assessment shall be conducted in Fall of 2008.	Minimum of two sections of CPS 295 over the three year period	A minimum of 20 students randomly selected from a minimum of 2 sections

Scoring and analysis of assessment:

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.
 Assignments will be evaluated by CIS faculty against a programming standards rubric, as well as homework specifications, and scored accordingly

2. Indicate the standard of success to be used for this assessment.
 At least 80% of students must score 75% or better on all learning outcome evaluations.

3. Indicate who will score and analyze the data (data must be blind-scored).
 Assessment materials will be evaluated by the CIS Department.

4. Explain the process for using assessment data to improve the course. Based upon the results of the report if 80% or more of students score 75% or higher on all learning outcomes, no action will be taken. If less than 80% of students score 75% or higher on learning outcomes, the department will revise the course accordingly.