

MASTER SYLLABUS

Course Discipline Code & No: <u>CIS 288</u>	Title: <u>Systems Analysis and Design</u>	Effective Term <u>Fall 2008</u>
Division Code: <u>BCT</u>	Department Code: <u>CISD</u>	Org #: <u>13400</u>
Don't publish: ☐ College Catalog ☐ Time Schedule ☐ Web Page		

Reason for Submission. Check all that apply.

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

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

Level II prerequisites need to be amended to add CPS 161 Introductory Java in addition to existing prerequisites CPS 171 Introductory C++ and CPS 185 Introductory Visual Basic .Net. In all other respects, the syllabus and assessment plan as submitted in February 2007 (attached) shall remain the same

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: <u>Clarence Hasselbach/Neil Gudsen</u>	Signature <u>Clarence Hasselbach</u>	Date: <u>4/7/2008</u>	
Print: <u>Clarence Hasselbach</u>	Signature <u>Clarence Hasselbach</u>	Date: <u>4/7/2008</u>	
Division Review by Dean			
☒ Request for conditional approval			
Recommendation ☒ Yes ☐ No	<u>Deborah Wilson</u>	Date: <u>4/7/08</u>	
		Dean's/ Administrator's Signature	
Curriculum Committee Review			
Recommendation ☐ Tabled ☒ Yes ☐ No	<u>John Hayes</u>	Date: <u>4/23/08</u>	
		Curriculum Committee Chair's Signature	
Vice President for Instruction Approval			
<u>Robert M. Palmy</u>		Date: <u>5/1/08</u>	
		Vice President's Signature	
Approval ☒ Yes ☐ No ☐ Conditional			

Do not write in shaded area.
 Log File 4/7/08 Copy ☐ Banner _____ C&A Database 5/6 C&A Log File 5/6 Basic skills ☐ Contact fee ☐

MASTER SYLLABUS

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

Course: CIS 288	Course title: Systems Analysis and Design
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Credit hours: <u>3</u> If variable credit, give range: _____ to _____ credits	Contact hours per semester:		Are lectures, labs, or clinicals offered as separate sections? ☐ Yes - lectures, labs, or clinicals are offered in separate sections ☒ No - lectures, labs, or clinicals are offered in the same section	Grading options: ☐ P/NP (limited to clinical & practica) ☐ S/U (for courses numbered below 100) ☒ Letter grades																		
	<table border="1"> <thead> <tr> <th></th> <th>Student</th> <th>Instructor</th> </tr> </thead> <tbody> <tr> <td>Lecture:</td> <td><u>45</u></td> <td><u>45</u></td> </tr> <tr> <td>Lab:</td> <td>___</td> <td>___</td> </tr> <tr> <td>Clinical:</td> <td>___</td> <td>___</td> </tr> <tr> <td>Practicum:</td> <td>___</td> <td>___</td> </tr> <tr> <td>Other:</td> <td>___</td> <td>___</td> </tr> <tr> <td>Totals:</td> <td><u>45</u></td> <td><u>45</u></td> </tr> </tbody> </table>				Student	Instructor	Lecture:	<u>45</u>	<u>45</u>	Lab:	___	___	Clinical:	___	___	Practicum:	___	___	Other:	___	___	Totals:
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Prerequisites. Select one:

☒ College-level Reading & Writing

☐ Reduced Reading/Writing Scores

☐ No Basic Skills Prerequisite

(Add information at Level I 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 Can be taken together	Corequisites Must be enrolled in this class also during the same semester
☐ and ☒ or <u>CPS 161</u>			<u>C</u>		
☐ and ☒ or <u>CPS 171</u>			<u>C</u>		
☐ and ☒ or <u>CPS 185</u>			<u>C</u>		

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

Course	Grade	Test	Min. Score
☐ and ☐ or _____			
☐ and ☐ 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.

☐ E.M.U. as _____

☐ U of M as _____

☐ _____ as _____

☐ _____ as _____

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MASTER SYLLABUS: CIS 288, Systems Analysis and Design

Course Discipline Code & No: <u>CIS 288</u>		Title: <u>Systems Analysis and Design</u>		Effective Term <u>2007 Fall</u>	
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Rationale for course or course change. Attach course assessment report for existing courses that are being changed.

Periodic assessment and re-evaluation

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: <u>Laurence Krieg</u> Faculty/Preparer	Signature: <u>[Signature]</u> Date: <u>2006-11-22</u>
Print: <u>Phillip Geyer</u> Department Chair	Signature: <u>[Signature]</u> Date: <u>11-22-06</u>

Division Review by Dean

☐ Request for conditional approval

Recommendation ☒ Yes ☐ No

[Signature] Rosemary Wilson Date: 12/15/06

Curriculum Committee Review

Recommendation ☐ Tabled ☒ Yes ☐ No

[Signature] Curriculum Committee Chair's Signature Date: 3/12/07

Vice President for Instruction Approval

[Signature] Vice President's Signature Date: 3/13/07

Approval ☒ Yes ☐ No ☐ Conditional

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

MASTER SYLLABUS: CIS 288, Systems Analysis and Design

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

Course: CIS 288	Course title: Systems Analysis and Design
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Credit hours: 3 If variable credit, give range: _____ to _____ credits	Contact hours per semester: <table style="width: 100%;"> <tr> <th></th> <th>Student</th> <th>Instructor</th> </tr> <tr> <td>Lecture:</td> <td>45</td> <td>45</td> </tr> <tr> <td>Lab:</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Clinical:</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Practicum:</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Other:</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>Totals:</td> <td>45</td> <td>45</td> </tr> </table>		Student	Instructor	Lecture:	45	45	Lab:	_____	_____	Clinical:	_____	_____	Practicum:	_____	_____	Other:	_____	_____	Totals:	45	45	Are lectures, labs, or clinicals offered as separate sections? ☐ Yes - lectures, labs, or clinicals are offered in separate sections ☐ No - lectures, labs, or clinicals are offered in the same section	Grading options: ☐ P/NP (limited to clinical & practica) ☐ S/U (for courses numbered below 100) ☐ Letter grades
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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 (Can be taken together)	Corequisites Must be enrolled in this class also during the same semester
☐ and ☐ or _____	_____	_____	_____	☐	_____
☐ and ☐ or _____	_____	_____	_____	☐	_____
☐ and ☐ or _____	_____	_____	_____	☐	_____

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

Course	Grade	Test	Min. Score
☐ and ☒ or CPS 171	C	_____	_____
☐ and ☐ or CPS 185	C	_____	_____
☐ and ☐ 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:

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 Insert course number and title you wish the course to transfer as.

- | | |
|--|---|
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| ☐ _____ as _____ | ☐ _____ as _____ |

MASTER SYLLABUS: **CIS 288, Systems Analysis and Design**

Course CIS 288	Course title: Systems Analysis and Design	
Course description State the purpose and content of the course. Please limit to <u>500</u> characters.	This course surveys computer applications and techniques in major areas of business, business structure, analytical communication with system users, principles of package software evaluation and acquisition, planning schedules and resource requirements for software development, and producing software development specifications. Software for data and process modeling will be introduced and used. Several approaches to system planning and development will be examined. Prerequisites will be checked on the first day of class.	
Course outcomes List skills and knowledge students will have after taking the course. Assessment method Indicate how student achievement in each outcome will be assessed to determine student achievement for purposes of course improvement.	Outcomes <i>(applicable in all sections)</i>	Assessment <i>Methods for determining course effectiveness</i>
	Professional approach to client interaction and reporting, properly using the English language	1. Outside expert or other faculty member will observe a student group presenting a report to a simulated client, scoring according to outcomes-based rubric 2. Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes-based rubric
	Ability to apply at least one approach to system planning and development	Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes
	Ability to apply professional software to data and process modeling tasks	Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes
	Achieve a professional level of system analysis and design	Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes
Course Objectives Indicate the objectives that support the course outcomes given above. Course Evaluations Indicate how instructors will determine the degree to which each objective is met for each student.	Objectives <i>(applicable in all sections)</i>	Evaluation <i>Methods for determining level of student performance of objectives</i>
	Identify computer-based business systems and their principal components	Multiple choice tests
	Identify the principal systems development approaches, their stages, strengths and weaknesses	Multiple choice tests
	Recognize and apply terminology used professionally in the systems analysis field	Multiple choice tests; Individual assignments and Group project
	Perform a system study of either a real or realistically simulated computer-based business system	Individual assignments and Group project
	Perform project planning using computer-based software	Individual assignments and Group project
	Describe system operation, data flow, input, control, output and communication using Unified Modeling Language (UML)	Individual assignments and Group project
	Describe and utilize principles of hardware and software evaluation and selection	Individual assignments and Group project
	Describe the principles of system conversion and implementation	Individual assignments and Group project

MASTER SYLLABUS: CIS 288, Systems Analysis and Design

List all new resources needed for course, including library materials.
Software for systems modeling with UML

Student Materials:

List examples of types		Estimated costs
Texts	Text, such as <i>Systems Analysis and Design: an active approach</i> , Second edition, by George M. Marakas	\$100
Supplemental reading		
Supplies	USB-based portable data storage device	\$20-90
Uniforms		
Equipment		
Tools		
Software		

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

Check level only if the specified equipment is needed for all sections of a course.

☐ Level I classroom

Permanent screen & overhead projector

☐ Level II classroom

Level I equipment plus TV/VCR

☒ Level III classroom

Level II equipment plus data projector, computer, faculty workstation

☐ Off-Campus Sites

☐ Testing Center

☒ Computer workstations/lab

☐ ITV

☐ TV/VCR

☐ Data projector/computer

☐ Other _____

Assessment plan:

Learning outcomes to be assessed (list from Page 3)	Assessment tool	When assessment will take place	Course section(s)/other population	Number students to be assessed
Professional approach to client interaction and reporting, properly using the English language	1. Outside expert or other faculty member will observe a student group presenting a report to a simulated client, scoring according to outcomes-based rubric 2. Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes-based rubric	W inter, 2009	All sections (there is usually only one)	10-12, by groups
Ability to apply at least one approach to system planning and development	Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes	W inter, 2009	All sections (there is usually only one)	10-12, by groups
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MASTER SYLLABUS: CIS 288, Systems Analysis and Design

Achieve a professional level of system analysis and design	Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes	Winter, 2009	All sections (there is usually only one)	10-12, by groups
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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.

Departmental rubric attached

2. Indicate the standard of success to be used for this assessment.

All groups display "Satisfactory" (score 2) or "Professional" (score 3) level of work, as outlined in the rubric

3. Indicate who will score and analyze the data (data must be blind-scored).

An outside assessor, or a member of the faculty not teaching the course during the term being assessed, familiar with the field of systems analysis.

4. Explain the process for using assessment data to improve the course.

The assessor's report will be carefully considered, and suggestions for improvement will be incorporated into assignments, tests, teaching methods, or the master syllabus, as appropriate.

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☒ Course objectives (minor changes)	☒ Outcomes/ Assessment
☐ Credit hours (credits were: _____)	☒ Objectives/Evaluation
	☐ Other _____

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

Periodic assessment and re-evaluation

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: <u>Laurence Krieg</u>	Signature: <u>[Signature]</u>	Date: <u>2006-11-22</u>	
Faculty/Preparer			
Print: <u>Phillip Geyer</u>	Signature: <u>[Signature]</u>	Date: <u>11-22-06</u>	
Department Chair			
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☐ Request for conditional approval			
Recommendation ☒ Yes ☐ No	<u>[Signature]</u>	Date: <u>12/15/06</u>	
	Rosemary Wilson		
Curriculum Committee Review			
Recommendation ☐ Tabled ☒ Yes ☐ No	<u>[Signature]</u>	Date: <u>3/12/07</u>	
	Curriculum Committee Chair's Signature		
Vice President for Instruction Approval			
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	Vice President's Signature		
Approval ☒ Yes ☐ No ☐ Conditional			

Do not write in shaded area.

Log File 3/15 Ecopy ☐ Banner 3/15 C&A Database 3/15 C&A Log File 3/15 Basic skills ☐ Contact fee ☐

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MASTER SYLLABUS: CIS 288, Systems Analysis and Design***Complete ALL sections which apply to the course, even if changes are not being made.**

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(Add information at Level I prerequisite)

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☐ and ☐ or _____	_____	_____	_____	☐	_____

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

Course	Grade	Test	Min. Score
<u>CPS 171</u>	<u>C</u>	_____	_____
☐ and ☒ or <u>CPS 185</u>	<u>C</u>	_____	_____
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Supplies	USB-based portable data storage device	\$20-90
Uniforms		
Equipment		
Tools		
Software		

Equipment/Facilities: Check all that apply. (All classrooms have overhead projectors and permanent screens.)Check level only if the specified equipment is needed for all sections of a course.☐ Level I classroom

Permanent screen & overhead projector

☐ Level II classroom

Level I equipment plus TV/VCR

☒ Level III classroom

Level II equipment plus data projector, computer, faculty workstation

☐ Off-Campus Sites☐ Testing Center☒ Computer workstations/lab☐ ITV☐ TV/VCR☐ Data projector/computer☐ Other _____**Assessment plan:**

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MASTER SYLLABUS: CIS 288, Systems Analysis and Design

Achieve a professional level of system analysis and design	Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes	Winter, 2009	All sections (there is usually only one)	10-12, by groups
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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.

Departmental rubric attached

2. Indicate the standard of success to be used for this assessment.

All groups display “Satisfactory” (score 2) or “Professional” (score 3) level of work, as outlined in the rubric

3. Indicate who will score and analyze the data (data must be blind-scored).

An outside assessor, or a member of the faculty not teaching the course during the term being assessed, familiar with the field of systems analysis.

4. Explain the process for using assessment data to improve the course.

The assessor’s report will be carefully considered, and suggestions for improvement will be incorporated into assignments, tests, teaching methods, or the master syllabus, as appropriate.

MASTER SYLLABUS: CIS 288, Systems Analysis and Design**Assessment Rubric**

Learning outcomes to be assessed (list from Page 3)	Assessment tool	Score			
		0 Not attempted	1 Poor	2 Satisfactory	3 Excellent
Professional approach to client interaction and reporting, properly using the English language	1. Outside expert or other faculty member will observe a student group presenting a report to a simulated client, scoring according to outcomes-based rubric	Not observed or not attempted	Presentation has many unprofessional aspects and would reflect poorly on a company giving it.	Most aspects professional in quality, though there are areas that need improvement.	Fully professional presentation, and would reflect well on a company giving it.
			Consideration includes spoken English, clarity, and audibility; and quality of projection materials or handouts		
	2. Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes-based rubric	Not observed or not attempted	Report has many unprofessional aspects and would reflect poorly on a company giving it.	Most aspects professional in quality, though there are areas that need improvement.	Fully professional presentation, and would reflect well on a company giving it.
			Consideration includes written English, clarity, grammar, spelling, and format.		
Ability to apply at least one approach to system planning and development	Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes	Not observed or not attempted	Report reflects little or no understanding of the approach	Report generally follows the approach, but lacks certain details	Report reflects a good understanding of the approach used
Ability to apply professional software to data and process modeling tasks	Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes	Not observed or not attempted	Diagrams and explanatory text are difficult to understand, poorly reflect the system, and show serious errors in conventional usage	Diagrams and explanatory text are largely correct and reflect the analyzed or proposed system, but have a few minor defects	Diagrams and explanatory text are clear, correct, and reflect the analyzed or proposed system accurately.
Achieve a professional level of system analysis and design	Outside expert or other faculty member will examine student group written report(s) to simulated clients, scoring according to outcomes	Not observed or not attempted	Incomplete, inaccurate, or flawed analysis and design	Largely complete and accurate but with a few correctable flaws	Complete, accurate, and sound analysis and design