

UNIVERSITY CURRICULUM COMMITTEE

October 16, 2007

University Union, Havasupai C Room

AGENDA

OLD BUSINESS

I. MINUTES OF THE September 25, 2007 MEETING

NEW BUSINESS

I. CONSENT ITEMS

A. COLLEGE OF ENGINEERING AND NATURAL SCIENCES

- | | |
|--|--|
| 1. CS 112 – Intro to the World Wide Web and Internet | Course Change- description |
| 2. CS 200 – Intro to Computer Organization | Course Change – prerequisites |
| 3. CS 212 – Web Programming | Course Change – prerequisites |
| 4. CM 130 – Computer Graphics | Course Change – title, description |
| 5. CM 329 – Construction Estimating and Bidding | Course Change – prerequisites and corequisites |
| 6. CM 388 - Construction Scheduling and Control | Course Change – prerequisites and corequisites |
-

B. COLLEGE OF HEALTH AND HUMAN SERVICES

- | | |
|---|--|
| 1. NTS 256 – Medical Nutrition | Course Change - prerequisites |
| 2. NTS 370 – Nutrition and Hormonal Changes During Exercise | Course Change – description and prerequisite |
-

II. ACTION ITEMS

A. COLLEGE OF ENGINEERING AND NATURAL SCIENCES

- | | |
|--|--|
| 1. BS Computer Science | Plan Change |
| 2. BS Construction Management | Plan Change |
| 3. CS 110 – Intro to Object Oriented Programming | New Course (tabled 9/25/07) |
| 4. CS 248 – Foundations of Computer Science | New Course (tabled 9/25/07) |
| 5. CS 476C – Applied Capstone Design | New Course (tabled 9/25/07) |
| 6. B.S. Applied Computer Science | New Plan and Request for Implementation (tabled 9/25/07) |
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- | | |
|--------------------|--|
| B. Liberal Studies | CS 476C, capstone request (tabled 9/25/07) |
|--------------------|--|
-

III. DISCUSSION

1. UCC Policies and Procedures
 2. New UCC Forms
-

UNIVERSITY CURRICULUM COMMITTEE

September 25, 2007

MINUTES

OLD BUSINESS

I. MINUTES OF THE April 10, 2007 MEETING – approved as presented.

NEW BUSINESS

I. Election of Chair for the UCC – John Hagood was elected as Chair of the UCC.

II. CONSENT ITEMS – Items A, B, C, D, E 2, 3, 4, and F were approved. Item E.1. was tabled.

A. Diversity

HIS 331- Global Diversity, Spring 2008

HS 471 – Ethnic Diversity, Spring 2008

B. Women's Studies

1. Women's Studies

Department Name Change – Women's and Gender Studies'- Effective Fall 07

C. AGECE Transfer Policy

Policy Change

D. SCHOOL OF FORESTRY

1. FOR 203 – Project Learning Tree

Course Change – component change

2. FOR 204 – Project Wild

Course Change - component change

3. FOR 205 – Project Wild Aquatic

Course Change - component change

4. FOR 452 – Forest Pathology

Course Change – grading option change

E. COLLEGE OF ENGINEERING AND NATURAL SCIENCES

1. EXS 150, 190, 334, 334R, 336, 337, 360, 408C, 414C, 460, 460L, 465C, 485C, 497C

Course Change – prefix to BIO, some number changes- same level, co-convening

2. EXS 478 – Neural Control of Movement

Course Deletion

3. EXS 491 – Implementing Strength Conditioning Programs

Course Deletion

4. BIO 344 – Cellular and Molecular Biology

Course Change – prerequisites

F. Syllabus Policy Statements

Updated

III. ACTION ITEMS

A. COLLEGE OF HEALTH AND HUMAN SERVICES – item tabled, no one present to represent the item.

1. Minor in Nutrition Science

Plan Name Change

B. COLLEGE OF ENGINEERING AND NATURAL SCIENCES – items 1-4 tabled by department.

1. CS 110 – Intro to Object Oriented Programming

New Course

2. CS 248 – Foundations of Computer Science

New Course

3. CS 476C – Applied Capstone Design

New Course

4. B.S. Applied Computer Science

New Plan and Request for Implementation

C. Liberal Studies

CS 476C, capstone request – item tabled.

D. Election of Diversity Committee Members

Both from UCC and faculty at large

The committee voted and David Ostergren and Evie Garcia were elected from the faculty at large. From the UCC, the following were elected: Dena Reed, Catherine Medina and Kathryn Kozak.

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR COURSE CHANGE

1. Is this course a Liberal Studies Course? yes no
2. Course change effective beginning of what term and year?
(ex. Spring 2008, Summer 2008) See effective dates schedule. Spring 2008
3. College CENS 4. Academic Unit Computer Science
5. Current course subject/catalog number CS 112

6. Current catalog title, course description, and units. (Cut and paste from current on-line academic catalog).
CS 112 INTRODUCTION TO THE WORLD WIDE WEB AND INTERNET (3)

Provides a broad introduction to World Wide Web and Internet-related software, including email, HTML, telnet, and FTP. Includes discovery of ethical and privacy issues in e-commerce. 2 hrs. lecture, 2 hrs. lab. Prerequisite: MAT 114 or Math Placement 43 or higher with a grade greater than or equal to C SAS

7. Is course currently cross listed or co-convened? yes no
If yes, list course _____
Will this continue? _____

8. Is course an elective? or required for an academic plan/subplan?
If required, for what academic plan/subplan? _____
If required, also submit *Proposal for New Plan or Plan Change*.

9. Will other courses or academic units, be affected by this change? (Consider prerequisites, degree requirements, etc.) yes no
If yes, explain in the justification and provide supporting documentation from the affected departments.

10. Does this change affect community college articulation? yes no
If yes, explain how in the justification and provide supporting documentation from the affected institutions.

Is the course a Common Course as defined by your Articulation Task Force? yes no
If yes, has the change been approved by the Articulation Task Force? yes no

If this course has been listed in the *Course Equivalency Guide*, should that listing
be left as is, or be revised?
If revised, how should it be revised? _____

FOR SECTION 11 ONLY COMPLETE WHAT IS CHANGING.

11. a. Proposed course subject /catalog number _____ b. Proposed units _____
c. If subject/catalog number change, is there a course fee attached to the current subject/catalog number that needs to be moved? Yes No
If yes, please attach a Justification Form for Instructional Fees indicating the new course subject/catalog number change.

Only fill in what is changing.

If information is remaining the same, leave the section blank.


d. Proposed to co-convene with _____ Date approved by UGC _____
(must be approved by UGC before UCC)

e. Proposed to cross-list with _____

f. Proposed long course title _____
(max 100 characters including spaces)

g. Proposed short course title _____
(max 30 characters including spaces)

h. Proposed catalog course description (max. 30 words, excluding requisites)
CS 112 INTRODUCTION TO THE WORLD WIDE WEB AND INTERNET (3)

 Provides a broad introduction to World Wide Web and Internet-related software, including email, HTML, telnet, and FTP. Includes discovery of ethical and privacy issues in e-commerce. 3 hrs. lecture. Prerequisite: MAT 114 or Math Placement 43 or higher with a grade greater than or equal to C SAS

i. Proposed grading option: Letter grade Pass/Fail or Both
(If both, the course may only be offered one way for each respective section.)

j. May course be repeated for additional units? yes no


j.1. If yes, maximum units allowed? _____

j.2. If yes, may course be repeated for additional units in the same term? (ex. BIO 300, PES 100)

yes no

11j.2.i. If yes, max units/term _____

k. Please check **ONE** of the following that most appropriately describes the proposed course change(s):

 k.i. Lecture w/0 unit embedded lab Lecture only Lab only Clinical Research

Seminar Field Studies Independent Study Activity Supervision

k.ii. In addition to the above, it will also be taught: Web ITV Hybrid Web Hybrid ITV

l. Proposed prerequisites (must be completed before) _____

m. Proposed corequisites (must be completed with) _____

n. If course has no requisites, will all sections of the course require: (check only one)

Instructor consent

Academic unit consent

No consent

12. Justification for course change. Please indicate how past assessments of student learning prompted proposed changes.

We discovered an error in the course description recently: the course was listed as "two hours lecture, two hours lab". In fact, the course actually consists of three hours lecture, one hour of which happens to take place in a computer lab so that lecture can include intermittent hands-on exercises (i.e., instructor talks about some internet tool/facility, and students try it out as lecture progresses).

Thus, the course should properly be listed as three hours lecture.

13. Approvals

Department Chair/ Unit Head (if appropriate)

Date

Chair of college curriculum committee

Date

Dean of college

Date

For Committee use only

For University Curriculum Committee

Date

Action taken: approved as submitted approved as modified

Note: Submit original to associate provost's office. That office will provide copies to college dean, department chair, and Academic Information Office.

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR COURSE CHANGE

1. Is this course a Liberal Studies Course? yes no
2. Course change effective beginning of what term and year?
(ex. Spring 2008, Summer 2008) See effective dates schedule. Fall 2008
3. College CENS 4. Academic Unit 3
5. Current course subject/catalog number CS 200

6. Current catalog title, course description, and units. (Cut and paste from current on-line academic catalog).
CS 200 INTRODUCTION TO COMPUTER ORGANIZATION (3)
Binary representation of information in digital computers. An introduction to digital logic design, computer architectures, microprocessor architectures and assembly language programming. Prerequisite: (CS 122 or CS 122H) or CS 126 with grade greater than or equal to C

7. Is course currently cross listed or co-convened? yes no
If yes, list course _____
Will this continue? _____

8. Is course an elective? or required for an academic plan/subplan?
If required, for what academic plan/subplan? BSCS
If required, also submit *Proposal for New Plan or Plan Change*.

9. Will other courses or academic units, be affected by this change? (Consider prerequisites, degree requirements, etc.) yes no
If yes, explain in the justification and provide supporting documentation from the affected departments.

10. Does this change affect community college articulation? yes no
If yes, explain how in the justification and provide supporting documentation from the affected institutions.

Is the course a Common Course as defined by your Articulation Task Force? yes no
If yes, has the change been approved by the Articulation Task Force? yes no

If this course has been listed in the *Course Equivalency Guide*, should that listing
be left as is, or be revised?
If revised, how should it be revised? _____

FOR SECTION 11 ONLY COMPLETE WHAT IS CHANGING.

11. a. Proposed course subject /catalog number _____ b. Proposed units _____

c. If subject/catalog number change, is there a course fee attached to the current subject/catalog number that needs to be moved? Yes No

If yes, please attach a Justification Form for Instructional Fees indicating the new course subject/catalog number change.

Only fill in what is changing.

If information is remaining the same, leave the section blank.

d. Proposed to co-convene with _____ Date approved by UGC _____
(must be approved by UGC before UCC)

e. Proposed to cross-list with _____

f. Proposed long course title _____
(max 100 characters including spaces)

g. Proposed short course title _____
(max 30 characters including spaces)

h. Proposed catalog course description (max. 30 words, excluding requisites)

i. Proposed grading option: Letter grade Pass/Fail or Both

(If both, the course may only be offered one way for each respective section.)

j. May course be repeated for additional units? yes no

j.1. If yes, maximum units allowed? _____

j.2. If yes, may course be repeated for additional units in the same term? (ex. BIO 300, PES 100)

yes no

11j.2.i. If yes, max units/term _____

k. Please check **ONE** of the following that most appropriately describes the proposed course change(s):

k.i. Lecture w/0 unit embedded lab Lecture only Lab only Clinical Research

Seminar Field Studies Independent Study Activity Supervision

k.ii. In addition to the above, it will also be taught: Web ITV Hybrid Web Hybrid ITV

l. Proposed prerequisites (must be completed before) CS 126 with grade greater than or equal to C

m. Proposed corequisites (must be completed with) _____

n. If course has no requisites, will all sections of the course require: (check only one)

Instructor consent


Academic unit consent

No consent

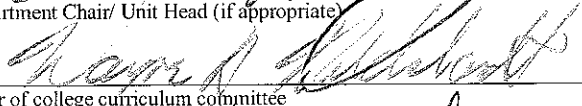
12. Justification for course change. Please indicate how past assessments of student learning prompted proposed changes.

Students with CS 126 background are having an easier time in CS 200 than students with CS 122 background, because CS 126 provides more convenient tools which can be used directly in CS 200.

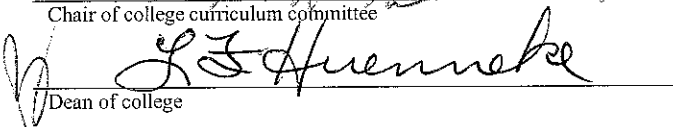
13. Approvals



Department Chair/ Unit Head (if appropriate) 9/20/07
Date




Chair of college curriculum committee 9/24/07
Date



Dean of college 24 Sept 07
Date

For Committee use only



For University Curriculum Committee 10/16/07
Date

Action taken: approved as submitted approved as modified

Note: Submit original to associate provost's office. That office will provide copies to college dean, department chair, and Academic Information Office.

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR COURSE CHANGE

1. Is this course a Liberal Studies Course? yes no
2. Course change effective beginning of what term and year?
(ex. Spring 2008, Summer 2008) See effective dates schedule. Fall 2008
3. College CENS 4. Academic Unit 3
5. Current course subject/catalog number CS 212
6. Current catalog title, course description, and units. (Cut and paste from current on-line academic catalog).
CS 212 WEB PROGRAMMING (3)
Introduces web programming. Emphasizes creating reactive, highly usable web sites. Introduces HTML forms, perl scripting, java applets, servlets, and JSP. Prerequisite: CS 122 or CS 122H SAS
7. Is course currently cross listed or co-convened? yes no
If yes, list course _____
Will this continue? _____
8. Is course an elective? or required for an academic plan/subplan?
If required, for what academic plan/subplan? _____
If required, also submit *Proposal for New Plan or Plan Change*.
9. Will other courses or academic units, be affected by this change? (Consider prerequisites, degree requirements, etc.) yes no
If yes, explain in the justification and provide supporting documentation from the affected departments.
10. Does this change affect community college articulation? yes no
If yes, explain how in the justification and provide supporting documentation from the affected institutions.
- Is the course a Common Course as defined by your Articulation Task Force? yes no
If yes, has the change been approved by the Articulation Task Force? yes no
- If this course has been listed in the *Course Equivalency Guide*, should that listing
be left as is, or be revised?
If revised, how should it be revised? _____

FOR SECTION 11 ONLY COMPLETE WHAT IS CHANGING.

Only fill in what is changing.

If information is remaining the same, leave the section blank.

11. a. Proposed course subject /catalog number _____ b. Proposed units _____

c. If subject/catalog number change, is there a course fee attached to the current subject/catalog number that needs to be moved? Yes No

If yes, please attach a Justification Form for Instructional Fees indicating the new course subject/catalog number change.

d. Proposed to co-convene with _____ Date approved by UGC _____
(must be approved by UGC before UCC)

e. Proposed to cross-list with _____

f. Proposed long course title _____
(max 100 characters including spaces)

g. Proposed short course title _____
(max 30 characters including spaces)

h. Proposed catalog course description (max. 30 words, excluding requisites)

i. Proposed grading option: Letter grade Pass/Fail or Both

(If both, the course may only be offered one way for each respective section.)

j. May course be repeated for additional units? yes no

j.1. If yes, maximum units allowed? _____

j.2. If yes, may course be repeated for additional units in the same term? (ex. BIO 300, PES 100)

yes no

11j.2.i. If yes, max units/term _____

k. Please check **ONE** of the following that most appropriately describes the proposed course change(s):

k.i. Lecture w/0 unit embedded lab Lecture only Lab only Clinical Research
Seminar Field Studies Independent Study Activity Supervision

k.ii. In addition to the above, it will also be taught: Web ITV Hybrid Web Hybrid ITV

l. Proposed prerequisites (must be completed before) CS 122, CS 122H, or CS 126 with grade greater than or equal to C

m. Proposed corequisites (must be completed with) _____

n. If course has no requisites, will all sections of the course require: (check only one)

Instructor consent Academic unit consent No consent

12. Justification for course change. Please indicate how past assessments of student learning prompted proposed changes.

Students need to have basic programming skills before they enter CS 212. Both CS 122 and CS 126 provide such skills, thus, we can use either CS 122 or CS 126 as prerequisite.

13. Approvals

Department Chair/ Unit Head (if appropriate)

Date

Chair of college curriculum committee

Date

Dean of college

Date

For Committee use only

For University Curriculum Committee

Date

Action taken: approved as submitted approved as modified

Note: Submit original to associate provost's office. That office will provide copies to college dean, department chair, and Academic Information Office.

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR COURSE CHANGE

1. Is this a Liberal Studies or Diversity Course? Liberal Studies Diversity Both
2. Course change effective beginning of what term and year?
(ex. Spring 2008, Summer 2008) *See effective dates schedule.* Fall 2008

3. College CENS 4. Academic Unit CM

5. Current course subject/catalog number CM 130

6. Current catalog title, course description, and units. (Copy and paste from current on-line academic catalog).

CM 130 COMPUTER GRAPHICS Practical application of computer-aided drafting with applications from industry. (3)

7. Is course currently cross-listed or co-convened? yes no
If yes, list course _____
Will this continue? _____

8. Is course an elective? or required for an academic plan/subplan? **X Pending**
If required, for what academic plan/subplan? CM
If required, also submit *Proposal for New Plan or Plan Change*.

9. Will other courses or academic units, be affected by this change? (Consider prerequisites, degree requirements, etc.) yes no **X**
If yes, explain in the justification and provide supporting documentation from the affected departments.

10. Does this change affect community college articulation? yes no **X**
If yes, explain how in the justification and provide supporting documentation from the affected institutions.

Is the course a Common Course as defined by your Articulation Task Force? yes no **X**
If yes, has the change been approved by the Articulation Task Force? yes no

If this course has been listed in the Course Equivalency Guide, should that listing be left as is, or be revised? **X**

If revised, how should it be revised? All equivalencies should be dropped

FOR SECTION 11 ONLY COMPLETE WHAT IS CHANGING.

11. a. Proposed course subject /catalog number _____ b. Proposed units _____
- c. If subject/catalog number change, is there a course fee attached to the current subject/catalog number that needs to be moved? Yes No**
If yes, please attach a Justification Form for Instructional Fees indicating the new course subject/catalog number change.
- d. Proposed to co-convene with _____ Date approved by UGC _____**
(Must be approved by UGC prior to bringing to UCC. Both course syllabi must be presented.)
- e. Proposed to cross-list with _____**
(Please submit a single cross-listed syllabus that will be used for all cross-listed courses.)
- f. Proposed long course title Computing in Construction**
(max 100 characters including spaces)
- g. Proposed short course title _____**
(max 30 characters including spaces) Computing in Construction
- h. Proposed catalog course description (max. 30 words, excluding requisites)**
Computing theory and practice in computer applications for the design and construction industry.
- i. Proposed grading option: Letter grade Pass/Fail or Both**
(If both, the course may only be offered one way for each respective section.)
- j. May course be repeated for additional units? yes no**
j.1. If yes, maximum units allowed? _____
j.2. If yes, may course be repeated for additional units in the same term? (ex. BIO 300, PES 100)
yes no
- k. Please check ONE of the following that most appropriately describes the proposed course change(s):**
Lecture w/0 unit embedded lab Lecture only X Lab only Clinical Research
Seminar Field Studies Independent Study Activity Supervision
- l. Proposed prerequisites (must be completed before) _____**
- m. Proposed corequisites (must be completed with) _____**
- n. If course has no requisites, will all sections of the course require: (If course has pre or co requisite, skip to question 12)**
Instructor consent Department consent No consent

Only fill in what is changing.

If information is remaining the same, leave the section blank.

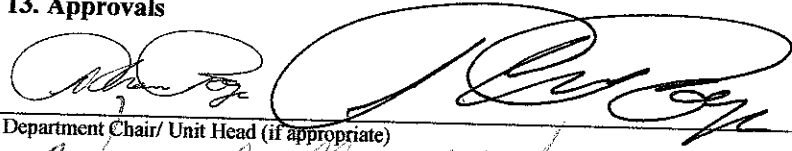


12. Justification for course change. Please indicate how past assessments of student learning prompted proposed changes.
This change has been made to update and to reflect actual needs for computing in construction beyond the computer aided drafting of the past.

The course will now include the study of data base and spread sheet design, website management, application specific software, algorithm development integrated BIM (Building Information Management) systems.

This course is added to the curriculum due to input from industry advisory groups.

13. Approvals


Department Chair/ Unit Head (if appropriate) July 4th, 2007 9/22/07
Date


Chair of college curriculum committee 9/21/07
Date


Dean of college 24 Sept 07
Date

For Committee use only


For University Curriculum Committee 10/16/07
Date

Action taken: approved as submitted approved as modified

**College of Engineering and Natural Sciences
Construction Management Department**

**CM 130
Computing in Construction**

Offered: Fall and Spring
SCHRS: 3 credit hours
Instructor: John Tingerthal
Office: Room 307B Bldg 69
Office Hours: TBD

Course prerequisites: Majors only

Course description : Computing theory and practice in computer applications for the design and construction industry.

Student Learning Expectations/Outcomes for this Course :

At the completion of this course students will be able to:

- Competently describe and utilize basic hardware and software terminology
- Create and manipulate files in a MS Windows operating environment including Word, Excel, Access, and PowerPoint
- Enter and extract useful data from a database program
- Build a basic website using Dreamweaver® or similar software
- Manipulate views and check for interferences using commercially available BIM (Building Information Management) program
- Understand, open, and manipulate CADD files including understanding layering and the addition of notations
- Create sketches in a variety of programs including Sketch-up and other ASP programs
- Create and manipulate spreadsheets that are commonly utilized in construction estimating, scheduling and data management
- Create a simple schedule using MS Project or other similar program
- Create and manipulate basic algorithms
- Create and demonstrate an informative PPT presentation

Course structure/approach:

This course will be delivered as a computer lab lecture with the skills learning developed with an embedded laboratory.

Textbook and required materials:

TBD based upon current software manuals.

Recommended optional materials/references (attach reading list)

Course outline

Basic hardware and software terminology

Creating, storage and file extraction in MS

Word, Excell, Access

Interfacing between different applications (i.e.: creating .csv text files, .dxf (drawing exchange files))

Geographic Information Systems GIS,

Getting information off of municipal web-based GIS systems.

Files in a computer environment

Spread sheets

Algorithms

Estimating,

Scheduling

MS Project

Management reporting

Data base management with CM proprietary database program

Dreamweaver® web site creation HTML, XHTML

BIM (Building Information Management) program

CADD systems

CADD layering

CADD notations

Sketch-up

Other low end object modeling software.

Using photos and video for project documentation

Composition, (ruler reference) lighting, descriptions and date stamping,

PowerPoint rules

Presentation basics

Assessment of Student Learning Outcomes

- **Methods of Assessment**

Individual demonstration of skills in embedded labs

Demonstration of knowledge through quizzes, assignments and examination

Demonstration of skills through final project

- **Timeline for Assessment**

Assessment will be contemporaneous with the skills sets as they are built, culminating in a cumulative individual project to be selected by the student to demonstrate at least four of the prescribed skills and a final examination demonstrating technical knowledge.

Grading System

Professionalism: The Construction Management Program at NAU is designed to develop both technical skills and professional behavior. Professionalism starts with coming to class on time, paying attention to the material presented, presenting polished work to your supervisors (instructors) and peers, and treating your peers (fellow students) and supervisors (instructors) with respect. (whether deserved or not)

Consulting with Faculty: We strongly encourage you to discuss academic or personal questions with the course instructors during **office hours** or via e-mail.

Calculation of Course Grade:

Quizzes	200 points
Attendance and attention	400 points
Project	200 points
Final Examination	<u>200 points</u>
Total Possible Points	1000 points

Your grade will be calculated by dividing the total points you receive by the total points possible. The product of this calculation will give you a class percentage. 90% & above = A, 80% and above = B, 65% and above = C, Below 65% = F. No D's will be given as this course is a prerequisite for scheduling. If you fail this course you will disrupt your CM education.

Course policies:**Quality Expectations:**

All assignments are to be computer generated and printed using a laser printer. Originals Only. No photocopied reports will be accepted. Remember professionalism counts! I expect all of your work to meet professional quality standards. Clear, Accurate, Concise. All assignments should be checked for spelling and punctuation errors.

Deadlines:

All assignments must be turned in at the beginning of class on the due date. Reports turned in later in the day will receive a grade no higher than a C. Assignments turned in after that date will receive an F. No Excuses.

Makeup Exams:

If you miss a test without a certified medical excuse or prior instructor approval you may take a makeup test at a designated time near the end of the semester. Only one makeup exam/quiz will be given and it will be comprehensive. It will be fair but challenging! If you miss the final exam without a valid excuse a zero will be averaged into your grades.

Attendance:

Attendance in the class is mandatory, will be recorded and considered in your final grade. You will be responsible for all lecture material including films and handouts.

Plagiarism:

This course requires professional and ethical behavior. Plagiarism, or any form of cheating violates this principle and will not be tolerated. The University regards acts of academic dishonesty as very serious offenses. Students charged with academic dishonesty are subject to the Arizona Board of Regents Code of Conduct and Procedures established by NAU.

Level of Effort (See ABOR Policy)

Although variable throughout the semester, in general, the "rule of the game" is that we expect students to spend a **minimum of 3 hours of high quality studying** for each hour spent in the classroom. You are expected to arrive at class each day having prepared by reading the relevant readings. You are expected to have practiced the study questions and problems.

University policies:

Attach the Safe Working and Learning Environment, Students with Disabilities, Institutional Review Board, and Academic Integrity policies or reference them on the syllabus.

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR COURSE CHANGE

1. Is this a Liberal Studies or Diversity Course? Liberal Studies Diversity Both
2. Course change effective beginning of what term and year?
(ex. Spring 2008, Summer 2008) See effective dates schedule. Fall 2008

3. College CENS 4. Academic Unit CM

5. Current course subject/catalog number CM 329

6. Current catalog title, course description, and units. (Copy and paste from current on-line academic catalog).

CM 329 CONSTRUCTION ESTIMATING AND BIDDING (3)
Development of complete estimates including bid documents, strategies, material and labor costing, computerized worksheets, and subcontractor buyout. Letter grade only. Prerequisite: CM 222 and CM 224 and CM 225 and STA 270 and CIS 120 and (CM 253 or CENE 270)

7. Is course currently cross-listed or co-convened? yes no
If yes, list course _____
Will this continue? _____

8. Is course an elective? or required for an academic plan/subplan? **X Pending**
If required, for what academic plan/subplan? CM
If required, also submit *Proposal for New Plan or Plan Change*.

9. Will other courses or academic units, be affected by this change? (Consider prerequisites, degree requirements, etc.) yes no **X**
If yes, explain in the justification and provide supporting documentation from the affected departments.

10. Does this change affect community college articulation? yes no **X**
If yes, explain how in the justification and provide supporting documentation from the affected institutions.

Is the course a Common Course as defined by your Articulation Task Force? yes no
If yes, has the change been approved by the Articulation Task Force? yes no

If this course has been listed in the Course Equivalency Guide, should that listing be left as is, or be revised?
If revised, how should it be revised? _____

FOR SECTION 11 ONLY COMPLETE WHAT IS CHANGING.

Only fill in what is changing.

If information is remaining the same, leave the section blank.

11. a. Proposed course subject /catalog number _____ b. Proposed units _____
- c. If subject/catalog number change, is there a course fee attached to the current subject/catalog number that needs to be moved? Yes No
If yes, please attach a Justification Form for Instructional Fees indicating the new course subject/catalog number change.
- d. Proposed to co-convene with _____ Date approved by UGC _____
(Must be approved by UGC prior to bringing to UCC. Both course syllabi must be presented.)
- e. Proposed to cross-list with _____
(Please submit a single cross-listed syllabus that will be used for all cross-listed courses.)
- f. Proposed long course title _____
(max 100 characters including spaces)
- g. Proposed short course title _____
(max 30 characters including spaces)
- h. Proposed catalog course description (max. 30 words, excluding requisites)
- i. Proposed grading option: Letter grade Pass/Fail or Both
(If both, the course may only be offered one way for each respective section.)
- j. May course be repeated for *additional* units? yes no
j.1. If yes, maximum units allowed? _____
j.2. If yes, may course be repeated for additional units in the same term? (ex. BIO 300, PES 100)
yes no
- k. Please check **ONE** of the following that most appropriately describes the proposed course change(s):
Lecture w/0 unit embedded lab Lecture only Lab only Clinical Research
Seminar Field Studies Independent Study Activity Supervision
- l. Proposed prerequisites (must be completed before) _____
CM 130, CM 222 and CM 224 and CM 225
- m. Proposed corequisites (must be completed with) _____
CM 388
- n. If course has no requisites, will all sections of the course require: (If course has pre or co requisite, skip to question 12)
Instructor consent Department consent No consent

12. Justification for course change. Please indicate how past assessments of student learning prompted proposed changes.
Pre-requisite change is due to CIS 120 to be replaced by CM 130

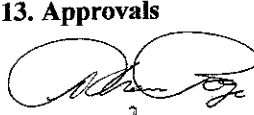

Dropped other pre-requisites to improve through put after review of required knowledge for the courses indicated this improvement.

CM is an extended major. Due to past staffing, some courses have been taught only once per year.

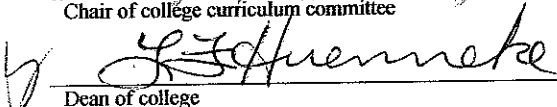
This change is due, in part, to our ability to offer both CM 388 and CM 329 each semester which is a pedagogical improvement as the content and context of these courses have significant interface.

This change also helps us increase the efficiency of student throughput (earlier completion).


13. Approvals

  July 4th, 2007 9/22/07
Department Chair/ Unit Head (if appropriate) Date

 9/24/07
Chair of college curriculum committee Date

 24 Sept 07
Dean of college Date

For Committee use only

 10/14/07
For University Curriculum Committee Date

Action taken: approved as submitted approved as modified

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR COURSE CHANGE

1. Is this a Liberal Studies or Diversity Course? Liberal Studies Diversity Both
2. Course change effective beginning of what term and year?
(ex. Spring 2008, Summer 2008) *See effective dates schedule.* Fall 2008

3. College CENS 4. Academic Unit CM

5. Current course subject/catalog number CM 388

6. Current catalog title, course description, and units. (Copy and paste from current on-line academic catalog).

CM 388 CONSTRUCTION SCHEDULING AND CONTROL

Project planning, scheduling, and resource allocation using manual and computer techniques. Prerequisite: CM 329 with grade greater than or equal to C (3)

7. Is course currently cross-listed or co-convened? yes no

If yes, list course _____

Will this continue? _____

8. Is course an elective? or required for an academic plan/subplan? **X Pending**

If required, for what academic plan/subplan? CM

If required, also submit *Proposal for New Plan or Plan Change*.

9. Will other courses or academic units, be affected by this change? (Consider prerequisites, degree requirements, etc.) yes no **X**

If yes, explain in the justification and provide supporting documentation from the affected departments.

10. Does this change affect community college articulation? yes no **X**

If yes, explain how in the justification and provide supporting documentation from the affected institutions.

Is the course a Common Course as defined by your Articulation Task Force? yes no

If yes, has the change been approved by the Articulation Task Force? yes no

If this course has been listed in the Course Equivalency Guide, should that listing be left as is, or be revised? **X**

If revised, how should it be revised? _____

All equivalencies should be dropped

FOR SECTION 11 ONLY COMPLETE WHAT IS CHANGING.

Only fill in what is changing.

If information is remaining the same, leave the section blank.

11. a. Proposed course subject /catalog number _____ b. Proposed units _____
- c. If subject/catalog number change, is there a course fee attached to the current subject/catalog number that needs to be moved? Yes No
If yes, please attach a Justification Form for Instructional Fees indicating the new course subject/catalog number change.
- d. Proposed to co-convene with _____ Date approved by UGC _____
(Must be approved by UGC prior to bringing to UCC. Both course syllabi must be presented.)
- e. Proposed to cross-list with _____
(Please submit a single cross-listed syllabus that will be used for all cross-listed courses.)
- f. Proposed long course title _____
(max 100 characters including spaces)
- g. Proposed short course title _____
(max 30 characters including spaces)
- h. Proposed catalog course description (max. 30 words, excluding requisites)
- i. Proposed grading option: Letter grade Pass/Fail or Both
(If both, the course may only be offered one way for each respective section.)
- j. May course be repeated for additional units? yes no
j.1. If yes, maximum units allowed? _____
j.2. If yes, may course be repeated for additional units in the same term? (ex. BIO 300, PES 100)
yes no
- k. Please check **ONE** of the following that most appropriately describes the proposed course change(s):
Lecture w/0 unit embedded lab Lecture only Lab only Clinical Research
Seminar Field Studies Independent Study Activity Supervision
- l. Proposed prerequisites (must be completed before) Drop pre-req
- m. Proposed corequisites (must be completed with) CM 329
- n. If course has no requisites, will all sections of the course require: (If course has pre or co requisite, skip to question 12)
Instructor consent Department consent No consent

12. Justification for course change. Please indicate how past assessments of student learning prompted proposed changes.
Pre-requisite change is due to CIS 120 to be replaced by CM 130



Dropped other pre-requisites to improve throughput after review of required knowledge for the courses indicated this improvement.

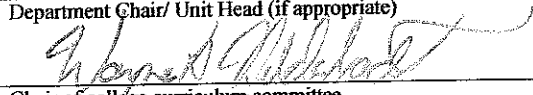
CM is an extended major. Due to past staffing, some courses have been taught only once per year.

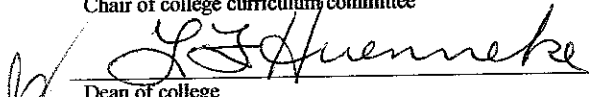
This change is due, in part, to our ability to offer both CM 388 and CM 329 each semester which is a pedagogical improvement as the content and context of these courses have significant interface.

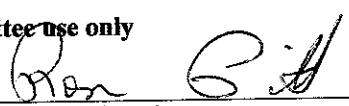
This change also helps us increase the efficiency of student throughput (earlier completion).

13. Approvals

  July 4th, 2007 9/22/07
Department Chair/ Unit Head (if appropriate) Date

 9/24/07
Chair of college curriculum committee Date

 24 Sept 07
Dean of college Date

For Committee use only
 10/16/07
For University Curriculum Committee Date

Action taken: approved as submitted approved as modified

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR COURSE CHANGE

1. Is this a Liberal Studies or Diversity Course? Liberal Studies Diversity Both
2. Course change effective beginning of what term and year?
(ex. Spring 2008, Summer 2008) *See effective dates schedule.* Spring 2008

3. College Health and Human Services 4. Academic Unit Nutrition Science

5. Current course subject/catalog number NTS 256

6. Current catalog title, course description, and units. (*Copy and paste from current on-line academic catalog*).

NTS 256 MEDICAL NUTRITION (3)

Science of human nutrition, nutrient sources, functions and interactions; physiology needs throughout the life cycle; role of nutrition in health and disease. Prerequisite: one of CHM 130 or higher, BIO 100 or higher, or NTS 135. SAS

7. Is course currently cross-listed or co-convened? yes no

If yes, list course _____

Will this continue? _____

8. Is course an elective? or required for an academic plan/subplan?

If required, for what academic plan/subplan? Athletic Training and Exercise Science

If required, also submit *Proposal for New Plan or Plan Change*.

9. Will other courses or academic units, be affected by this change? (Consider prerequisites, degree requirements, etc.) yes no

If yes, explain in the justification and provide supporting documentation from the affected departments.

10. Does this change affect community college articulation? yes no

If yes, explain how in the justification and provide supporting documentation from the affected institutions.

Is the course a Common Course as defined by your Articulation Task Force? yes no

If yes, has the change been approved by the Articulation Task Force? yes no

If this course has been listed in the *Course Equivalency Guide*, should that listing be left as is, or be revised?

If revised, how should it be revised? _____

FOR SECTION 11 ONLY COMPLETE WHAT IS CHANGING.

Only fill in what is changing.

If information is remaining the same, leave the section blank.



11. a. Proposed course subject /catalog number _____ b. Proposed units _____

c. If subject/catalog number change, is there a course fee attached to the current subject/catalog number that needs to be moved? Yes No

If yes, please attach a Justification Form for Instructional Fees indicating the new course subject/catalog number change.

d. Proposed to co-convene with _____ Date approved by UGC _____
(Must be approved by UGC prior to bringing to UCC. Both course syllabi must be presented.)

e. Proposed to cross-list with _____
(Please submit a single cross-listed syllabus that will be used for all cross-listed courses.)

f. Proposed long course title _____
(max 100 characters including spaces)

g. Proposed short course title _____
(max 30 characters including spaces)

h. Proposed catalog course description (max. 30 words, excluding requisites)

Prerequisites: one of CHM 130 or higher, or BIO 181 or higher, or NTS 135

i. Proposed grading option: Letter grade Pass/Fail or Both
(If both, the course may only be offered one way for each respective section.)

j. May course be repeated for additional units? yes no

j.1. If yes, maximum units allowed? _____

j.2. If yes, may course be repeated for additional units in the same term? (ex. BIO 300, PES 100)
yes no

k. Please check **ONE** of the following that most appropriately describes the proposed course change(s):

Lecture w/0 unit embedded lab Lecture only Lab only Clinical Research
Seminar Field Studies Independent Study Activity Supervision

l. Proposed prerequisites (must be completed before) **one of CHM 130 or higher, or BIO 181 or higher, or NTS 135** _____


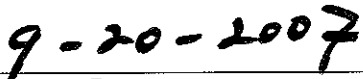
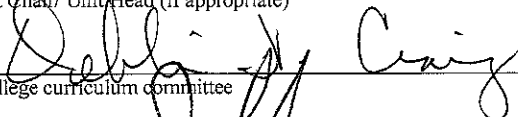
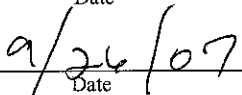
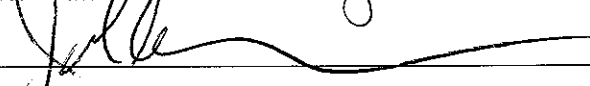
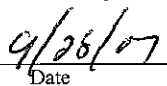

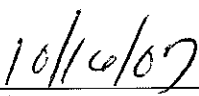
m. Proposed corequisites (must be completed with) _____

n. If course has no requisites, will all sections of the course require: (If course has pre or co requisite, skip to question 12)
Instructor consent Department consent No consent

12. Justification for course change. Please indicate how past assessments of student learning prompted proposed changes.

The proposed prerequisite change will definitely help the students understand and perform better in NTS 256: Medical Nutrition.

13. Approval

	
Department Chair/ Unit Head (if appropriate)	Date
	
Chair of college curriculum committee	Date
	
Dean of college	Date
For Committee use only	
	
For University Curriculum Committee	Date

Action taken: approved as submitted approved as modified

Note: Submit original to associate provost's office. That office will provide copies to college dean, department chair, and Academic Information Office.

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR COURSE CHANGE

1. Is this a Liberal Studies or Diversity Course? Liberal Studies Diversity Both

2. Course change effective beginning of what term and year?
(ex. Spring 2008, Summer 2008) *See effective dates schedule.* Spring 2008

3. College Health and Human Services 4. Academic Unit Nutrition Science

5. Current course subject/catalog number NTS 370

6. Current catalog title, course description, and units. (*Copy and paste from current on-line academic catalog*).

NTS 370 NUTRITION AND HORMONAL CHANGES DURING EXERCISE (3)

Impact of stress on body chemistry including hormones, nutrient metabolism, metabolites, and supplements/diet related to health and physical activity. Cross listed as EXS 370. Instructor's consent required. Prerequisite: (NTS 256 or NTS 256H) and (EXS 336 or CHM 360) or International Exchange Student Group

7. Is course currently cross-listed or co-convened? yes no

If yes, list course _____
Will this continue? _____

8. Is course an elective? or required for an academic plan/subplan?

**Minor in ~~Medical and~~ Nutritional Sciences,
and Exercise and Nutrition Science**

If required, also submit *Proposal for New Plan or Plan Change*.

9. Will other courses or academic units, be affected by this change? (Consider prerequisites, degree requirements, etc.) yes no

If yes, explain in the justification and provide supporting documentation from the affected departments.

10. Does this change affect community college articulation? yes no

If yes, explain how in the justification and provide supporting documentation from the affected institutions.

Is the course a Common Course as defined by your Articulation Task Force? yes no

If yes, has the change been approved by the Articulation Task Force? yes no

If this course has been listed in the *Course Equivalency Guide*, should that listing be left as is, or be revised?

If revised, how should it be revised? _____

FOR SECTION 11 ONLY COMPLETE WHAT IS CHANGING.

Only fill in what is changing.

If information is remaining the same, leave the section blank.



11. a. Proposed course subject /catalog number _____ b. Proposed units _____

c. If subject/catalog number change, is there a course fee attached to the current subject/catalog number that needs to be moved? Yes No

If yes, please attach a Justification Form for Instructional Fees indicating the new course subject/catalog number change.

d. Proposed to co-convene with _____ Date approved by UGC _____
(Must be approved by UGC prior to bringing to UCC. Both course syllabi must be presented.)

e. Proposed to cross-list with _____
(Please submit a single cross-listed syllabus that will be used for all cross-listed courses.)

f. Proposed long course title _____
(max 100 characters including spaces)

g. Proposed short course title _____
(max 30 characters including spaces)

h. Proposed catalog course description (max. 30 words, excluding requisites)

Prerequisite: NTS 256 and (SHP 303 or CHM 360)

Recommended: EXS 336

i. Proposed grading option: Letter grade Pass/Fail or Both

(If both, the course may only be offered one way for each respective section.)

j. May course be repeated for additional units? yes no

j.1. If yes, maximum units allowed? _____

j.2. If yes, may course be repeated for additional units in the same term? (ex. BIO 300, PES 100)

yes no

k. Please check ONE of the following that most appropriately describes the proposed course change(s):

Lecture w/0 unit embedded lab Lecture only Lab only Clinical Research

Seminar Field Studies Independent Study Activity Supervision

l. Proposed prerequisites (must be completed before) NTS 256 and (SHP 303 or CHM 360)

m. Proposed corequisites (must be completed with) _____


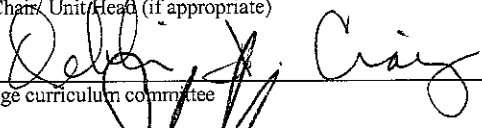
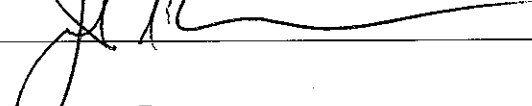

n. If course has no requisites, will all sections of the course require: (If course has pre or co requisite, skip to question 12)

Instructor consent Department consent No consent

12. Justification for course change. Please indicate how past assessments of student learning prompted proposed changes.

Based on past assessment of student learning outcome, those who took SHP 303 or CHM 360 understood and performed better in NTS 370 than those who just took EXS 336

13. Approvals

		9-20-2007
Department Chair/ Unit/Head (if appropriate)		Date
		9/26/07
Chair of college curriculum committee		Date
		9/28/07
Dean of college		Date
For Committee use only		10/17/07
		Date
For University Curriculum Committee		

Action taken: approved as submitted approved as modified

Note: Submit original to associate provost's office. That office will provide copies to college dean, department chair, and Academic Information Office.

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR NEW ACADEMIC PLAN, PLAN CHANGE, OR PLAN DELETION

1. College CENS 2. Academic Unit CS

3. Academic Plan Name B.S. Computer Science 4. Subplan (if applicable)? _____

5. Effective Date Fall 2008

6. Is this proposal for a : New Plan Plan Change Plan Deletion
(Please refer to Plan and Subplan definitions) New Subplan Subplan Change Subplan Deletion

7.

For Plan Changes, place the existing catalog text in this column. Please copy and paste the text directly from the *current* on line academic catalog:

(<http://www4.nau.edu/aiol/AcademicCatalog/academiccatalogs.htm>)

Be sure you include all catalog text that pertains to this plan change

Also note that you can't have more than two grades of D in your computer science and engineering courses.

Finally, please note that you may be able to use some courses to meet more than one requirement; however, you must still meet the total of at least 120 units to graduate. Contact your advisor for details.

PREPROFESSIONAL REQUIREMENTS

You take the following 47 units:

- one of the following blocks of basic science courses (12 units):

PHY 161, 161L, 262, and 262L plus 4 additional units in AST, BIO, CHM, GLG, or PHY coursework

or CHM 151, 151L, 152, and 152L plus 3 additional units in AST, BIO, CHM, GLG, or PHY coursework

or BIO 181:181L and 182 plus 4 additional units in AST, BIO, CHM, GLG, or PHY coursework where at least 3 units are from the Science block in Liberal Studies

or BIO 181:181L and 182 plus 4 additional units in AST, BIO, CHM, GLG, or PHY coursework where at least 3 units are from the Science block in Liberal Studies

- MAT 136, 137, and 226 plus MAT 316 or 362 (14 units)

Show the proposed changes in this column. Please **BOLD** the changes, to differentiate from what is not changing.

(Describe the changed requirements under headings that match those used in the left column. Please be aware that if the units are not totaled correctly, the catalog editor will adjust them accordingly.)

Also note CS majors must get a C or better in all required CS courses, and no more than one D in CS or Tech electives.

Finally, please note that you may be able to use some courses to meet more than one requirement; however, you must still meet the total of at least 120 units to graduate. Contact your advisor for details.

PREPROFESSIONAL REQUIREMENTS

You take the following 47 units:

- one of the following blocks of basic science courses (12 units):

PHY 161, 161L, 262, and 262L plus 4 additional units in AST, BIO, CHM, GLG, or PHY coursework

or CHM 151, 151L, 152, and 152L plus 3 additional units in AST, BIO, CHM, GLG, or PHY coursework

or BIO 181:181L and 182 plus 4 additional units in AST, BIO, CHM, GLG, or PHY coursework where at least 3 units are from the Science block in Liberal Studies

or BIO 181:181L and 182 plus 4 additional units in AST, BIO, CHM, GLG, or PHY coursework where at least 3 units are from the Science block in Liberal Studies

- MAT 136, 137, and 226 plus MAT 316 or 362 (14 units)
- engineering science and applied

- engineering science and applied mathematics:
CENE 225 or STA 270 (3 units)
- 9 units chosen with your advisor from EE, MAT, PHY, CHM, and BIO as well as from CS courses at the 200 level or above. (Please note that you may use courses with other prefixes with your advisor's approval.
- ENG 302W, which meets NAU's junior writing requirement (3 units)
- two additional courses chosen from the aesthetics and humanistic inquiry, cultural understanding, or social and political worlds blocks of liberal studies courses (6 units)
([Click here for a listing of these courses](#))

mathematics:

CENE 225, STA 270, or STA 275 (3 units)

- 9 units chosen with your advisor from EE, MAT, PHY, CHM, and BIO as well as from CS courses at the 200 level or above. (Please note that you may use courses with other prefixes with your advisor's approval.
- ENG 302W, which meets NAU's junior writing requirement (3 units)
- two additional courses chosen from the aesthetics and humanistic inquiry, cultural understanding, or social and political worlds blocks of liberal studies courses (6 units)
([Click here for a listing of these courses](#))

8. For undergraduate plans, will this requirement be a student individualized plan*? no yes

*A *Student Individualized Plan* is an academic requirement that varies by student, such as the 15-unit BAiLS focus, for which coursework requirements are established by the student in consultation with the advisor.

If yes, the academic unit listed at the top of this form hereby takes responsibility for providing complete information about each student's individual requirements for the degree audit system.

9. For undergraduate plans, will a milestone** be used to:

- a. verify satisfactory completion of a non course requirement.
- b. indicate admission to a major.
- c. will not be used.

**A *Milestone* is used to record noncourse requirements, such as the HRM 800-hour work experience requirement or admission to Business Major status.

If yes, the academic unit listed at the top of this form hereby takes responsibility for maintaining the milestone and keeping individual student records up to date.

10. Please list the Learning Outcomes of the Plan/Subplan (see degree major assessment webpage - <http://www4.nau.edu/assessment/main/degree/degree.htm>).

Objective 1: The CS program provides a quality, personalized, undergraduate education.

Objective 2: The CS program provides opportunities for undergraduates to get involved in research and helps students to understand the benefits of pursuing graduate studies in computing.

Objective 3: The CS program encourages students to integrate computing skills with any of a broad range of other disciplines.

Objective 4: CS graduates will have well-developed leadership, project management, and small team development skills.

Objective 5: CS graduates will have a strong background in both theoretical and practical aspects of computer science. They will be able to apply theoretical principles and techniques to design and construct high quality, functional solutions to real-world computing challenges.

Objective 6: CS graduates will have a strong background in modern international engineering practice, including intercultural teaming skills, ability to work in widely distributed teams, and awareness of international engineering issues.

Objective 7: CS graduates will be acquainted with major professional ethical issues and ways of thinking about them.

Objective 8: CS graduates will have strong communication and technical writing skills, including delivery of effective presentations, reporting, and proposal writing.

11. Justification for proposal. Please indicate how past assessments of student learning prompted proposed changes.

We make two changes to BSCS plan.

First, we change the number of Ds allowed. CS majors must get a C or better in all required courses, and no more than one D in CS or Tech electives. The reason for this change is to improve our academic standard and ensure the quality of our graduates.

The second change is that we accept STA 275 as an option to satisfy engineering science and applied mathematics requirement. This option provides more flexibility. In addition, STA 275 is calculus-based applied statistics and it is more suitable for CS majors.

These two changes don't affect our current eight-term degree progression plan.

12. If this academic plan/subplan will require additional faculty, space, or equipment, how will these requirements be satisfied?

No additional faculty, space, or equipment will be required

13. Will this academic plan/subplan affect other majors, liberal studies course offerings, plans/subplans, curricula, or enrollment at NAU?

If so, attach supporting documentation from the affected departments/units and college dean.

No

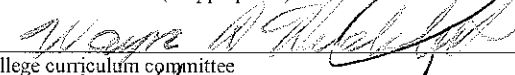
14. Will present library holdings support this academic plan/subplan?

Yes

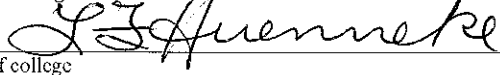
Certifications



Department Chair/ Unit Head (if appropriate) 9/20/07
Date



Chair of college curriculum committee 9/24/07
Date



Dean of college 24 Sept 07
Date

26

For committee use only



For University Curriculum Committee 10/16/07
Date

Action taken: approved as submitted approved as modified

Note: Submit original to associate provost's office. That office will provide copies to the college dean, department chair, and Academic Information Office after approval.

Computer Science
NORTHERN ARIZONA UNIVERSITY COLLEGE OF ENGINEERING AND NATURAL SCIENCES
2007-2008 Program of Study for the
Bachelor of Science in Computer Science (BSCS)

This is a suggested program of study. Courses can be taken in any sequence, if prerequisites and corequisites are satisfied. You must earn a C or better in each course listed as a prerequisite for any CS/EE/EGR/ME/CENE course you take. See the catalog description of each course for prerequisites and corequisites. Please be aware that some courses are not offered every semester.

	<i>FALL</i>		<i>FRESHMAN YEAR</i>		<i>SPRING</i>		
CS 126	Intro to Comp Science	3	_____	CS 136	Software Techniques	3	_____
CS126R	Intro to CS Recitation	1	_____	MAT 137	Calculus II	4	_____
MAT 136	Calculus I	4	_____	ENG 105	Critical Reading/Writing	4	_____
_____	Liberal Studies	3	_____	_____	Science Elective I (with Lab)	4	_____
_____	Liberal Studies/ Diversity	3	_____			15	_____
_____	First Year Experience	<u>1</u>	_____				
		<u>15</u>	_____				

(The prerequisite for CS 126 is a previous programming course at the high school or college level (e.g. CS 122).)

	<i>FALL</i>		<i>SOPHOMORE YEAR</i>		<i>SPRING</i>		
MAT 226	Discrete Mathematics	3	_____	CENE 225	Engineering Analysis OR	3	_____
				STA 270	Applied Statistics OR		
CS 200	Introduction to Computer Organization	3	_____	STA 275	Statistical Analysis		
_____	Science Elective II with lab	4	_____	CS 249	Data Structures	3	_____
_____	Liberal Studies	3	_____	_____	Science Elective	4	_____
_____	Liberal Studies	<u>3</u>	_____	_____	Liberal Studies /Diversity	3	_____
		<u>16</u>	_____	_____	Liberal Studies	<u>3</u>	_____
						<u>16</u>	_____

	<i>FALL</i>		<i>JUNIOR YEAR</i>		<i>SPRING</i>		
CS 315	Automata Theory	3	_____	CS 396	Prin. of Languages	3	_____
CS 386	Software Engineering	3	_____	CS 480	Operating Systems	3	_____
CS 301	Social & Ethical Issues in CS	1	_____	MAT 316	Linear Algebra OR	3	_____
_____	CS elective	3	_____	MAT 362	Numerical Analysis		
_____	CS elective	3	_____	ENG 302W	Technical Writing	3	_____
_____	Tech elective	<u>3</u>	_____	_____	CS elective	<u>3</u>	_____
		<u>16</u>	_____			15	_____

	<i>FALL</i>		<i>SENIOR YEAR</i>		<i>SPRING</i>		
CS 421	Algorithms	3	_____	CS 486C	Capstone Experience	4	_____
_____	CS elective	3	_____	_____	CS elective	3	_____
_____	CS elective	3	_____	_____	Tech elective	3	_____
_____	Tech elective	3	_____	_____	Liberal Studies	<u>3</u>	_____
_____	Liberal Studies	3	_____			<u>13</u>	_____
		<u>15</u>	_____				

LIBERAL STUDIES REQUIREMENT (ABET accreditation and NAU requirements.)

1. 24 total elective credits are required in the NAU liberal studies categories of Social and Political Worlds, Aesthetic and Humanistic Inquiry, and Cultural Understanding. At least 6 hours must be completed in two of the three categories. (CS prefix courses are not permitted.)
2. 4 hours of NAU lab science and 3 hours of NAU science/ applied science as specified on the next page.
3. A 2-course lab science sequence as specified on the next page.
4. ENG 105, MAT 136 (foundations), ENG 302W (Jr. writing requirement), CS 486C (Sr. capstone)

Social and Political Worlds	Aesthetic & Humanistic Inquiry	Cultural Understanding
-----------------------------	--------------------------------	------------------------

Other requirements: NAU has both a three credit U.S. ethnic and a three credit global diversity requirement. These credits should be selected from the approved list, which may also satisfy liberal studies or major requirements.

SCIENCE ELECTIVES

The B.S. in Computer Science degree requires a total of 12 credit hours of science coursework. Within this, several further restrictions apply: (a) for ABET accreditation, a student must complete a two semester sequence of lab science where both courses come from either the same science: biology, chemistry or physics; (b) for NAU liberal studies requirements, a student must complete 4 hours of Lab Science and at least 3 hours of Science and Applied Science credits.

Three options that satisfy these constraints are given below:

Option 1.

- PHY 161(3cr)+161Lab(1cr): satisfies 4 hours of NAU Lab Science
- PHY 262(3cr)+262Lab(1cr) : satisfies 4 hours of NAU Science and Applied Science
- 4 additional hours of science.

Option 2.

- CHM 151(4cr)+151Lab (1cr): satisfies 5 hours of NAU Lab Science
- CHM 152(3cr)+152Lab (1cr) : satisfies 4 hours of NAU Science and Applied Science
- 3 additional hours of science.

Option 3.

- BIO 181(3cr)+BIO181Lab(1cr): satisfies 4 hours of NAU Lab Science
- BIO 182 (includes lab) (4cr): completes the two semester lab science requirement of ABET but carries no NAU Science and Applied Science credit.
- 4 additional hours of science must be taken, at least three of which must qualify as NAU Science and Applied Science.

COMPUTER SCIENCE ELECTIVES

Computer Science majors are required to complete at least 18 hours of computer science electives and 9 hours of Tech electives selected in consultation with the student's academic advisor. Any CS elective may be substituted for an Tech elective. Courses that satisfy the computer science elective requirement are listed below. Note that some of the courses come from departments other than computer science. Advanced permission is needed in order to have courses not shown below counted as CS electives.

Computer science electives currently include the following (all carry three hours credit):

<u>Course</u>	<u>Course Title</u>
CS 345	Principles of Database Systems
CS 412	Enterprise Web Computing
CS 413	Virtual Worlds
CS 430	Computer Graphics
CS 445	Data Mining
CS 460	Computer Networks
CS 465	Distributed Systems
CS 470	Introduction to Intelligent Systems
CS 477	Advanced User Interfaces
CS 481	Compilers
CS 485*	Undergraduate Research
CS 497*	Independent Study
CS 499**	Topics in Computer Science
EE 414	Computer Architecture
EE 442	Image Processing
EE 448	Digital Signal Processing (Prerequisite EE 348 can be taken as an Tech elective.)

* NOTE: No more than six hours of Undergraduate Research and Independent Study may be submitted as computer science electives.

** NOTE: CS499 is used generically to test out new courses before adding them permanently to our offering. CS499 may be repeated for credit, so long as the course subtitle (topic) is different.

TECH ELECTIVES

Computer science majors are required to complete 9 hours of Tech electives, selected in consultation with the student's academic advisor. These can be selected from courses with the prefixes EE, MAT, PHY, CHM, and BIO as well as from CS general electives at the 200 level or above. Courses with other prefixes can be selected with permission of your advisor. Computer scientists work in collaboration with professionals in a wide variety of disciplines. The Tech elective requirement is meant to encourage computer science students to minor in an additional field of interest or to pick up additional expertise in one or more additional fields of interest. Several examples of how the 9 hours of Tech electives can be used to satisfy minors are given on the next page.

A few examples of how to integrate a minor into the Computer Science curriculum.

Minor in Mathematics:

Courses in the minor already required in CS program: MAT 136, MAT 137, MAT 316, MAT 226

Select your 9 credits of Tech electives to satisfy remaining minor requirements:

3 units MAT or STA courses numbers 200+.

6 units MAT or STA courses numbered 300 level or above (except MAT 301, 401, and 402).

Minor in Chemistry:

With consultation from your chemistry minor advisor you would select 18-24 units of chemistry. The following 20 hours of chemistry courses give one possibility. This plan satisfies the 12 units of science electives required in the CS program as well as the additional 9 units of required Tech electives in the computer science program.

Courses that satisfy science units already required in the CS program:

Use Chemistry courses to fill science requirements, e.g.:

CHM 151, CHM 151L, CHM 152, CHM 152L, CHM 235

Select your Tech electives as follows: CHM 238, plus two of CHM 320, 350, 360

Minor in Physics:

With consultation from your physics minor advisor you would select 18-24 units of physics. The following 20 hours of physics courses give one possibility. This plan satisfies the 12 units of science electives required in the CS program as well as the additional 9 units of required Tech electives in the computer science program.

Courses that satisfy science units already required in the CS program:

Use Physics courses to fill science requirements, e.g.:

PHY 161, PHY 161L, PHY 262, PHY 262L, PHY 263

Select your Tech electives as follows:

Nine hours of additional courses in physics, all at or above the 200 level

Minor in Biology:

Courses that satisfy science units already required in the CS program:

Use Biology courses to fill science requirements, e.g.:

BIO 181, BIO 182, plus at least one of BIO 300 (3 hours), BIO 366, or BIO 372.

Select your Tech electives as follows:

- One additional lab course (1-4 hours, 200+ level).
- 6-9 hours of non-duplicating coursework, 200+ level, which may include up to 3 hours of BIO 300. (Please note that you can use BIO 205 *or* 220 but not both; also BIO 100 and 310 may not be used.)

Minor in Electrical Engineering:

Take EE 188+lab as foundation to EE minor

Select your 9-credits of Tech Electives + 3 additional credits:

EE 280+lab plus 8 credit hours of EE 200-level and higher courses.

Select two Computer Science Electives as follows:

6 credit hours from 300-level and higher EE courses listed on Page 2 under Computer Science electives.

Minor in Linguistics:

Courses required for minor already required in the CS program:

CS 126, CS 136, CS 396

Select your Tech Electives as follows:

3 additional courses selected from a variety of disciplines as described on page 365 of the NAU Catalog (Interdisciplinary Minor in Linguistics).

UNIVERSITY CURRICULUM COMMITTEE

PROPOSAL FOR NEW ACADEMIC PLAN, PLAN CHANGE, OR PLAN DELETION

1. College CENS 2. Academic Unit CM

3. Academic Plan Name Construction Management 4. Subplan (if applicable)? _____

5. Effective Date FALL 2008

6. Is this proposal for a : New Plan Plan Change Plan Deletion
(Please refer to Plan and Subplan definitions) New Subplan Subplan Change Subplan Deletion

7. For Plan Changes, place the existing catalog text in this column. Please copy and paste the text directly from the *current* on line academic catalog: (<http://www4.nau.edu/aio/AcademicCatalog/academiccatalogs.htm>)
Be sure you include all catalog text that pertains to this plan change

These 20 units provide you with a foundation for study in construction management:

- MAT 125 (4 units)
- PHY 111 and 111L (4 units)
- CIS 120 (3 units)
- CM 120, 123, and 124 (9 units)

Show the proposed changes in this column. Please **BOLD** the changes, to differentiate from what is not changing.
(Describe the changed requirements under headings that match those used in the left column. Please be aware that if the units are not totaled correctly, the catalog editor will adjust them accordingly.)

These 20 units provide you with a foundation for study in construction management:

- MAT 125 (4 units)
- PHY 111 and 111L (4 units)
- ~~CIS 120 (3 units)~~
- CM 120, 123, and 124, **130 (12 units)**

8. For undergraduate plans, will this requirement be a student individualized plan*? no yes

*A Student Individualized Plan is an academic requirement that varies by student, such as the 15-unit BAiLS focus, for which coursework requirements are established by the student in consultation with the advisor.

If yes, the academic unit listed at the top of this form hereby takes responsibility for providing complete information about each student's individual requirements for the degree audit system.

9. For undergraduate plans, will a milestone** be used to:

- a. verify satisfactory completion of a non course requirement.
- b. indicate admission to a major.
- c. will not be used.

**A Milestone is used to record noncourse requirements, such as the HRM 800-hour work experience requirement or admission to Business Major status.

If yes, the academic unit listed at the top of this form hereby takes responsibility for maintaining the milestone and keeping individual student records up to date.

10. Please list the Learning Outcomes of the Plan/Subplan (see degree major assessment webpage - <http://www4.nau.edu/assessment/main/degree/degree.htm>).

Learning outcomes for CM students:

- Provide our students with the basic skills and knowledge required for leadership through:
 - Mastery of oral and written communication skills.
 - Mastery of technical knowledge in engineering and construction processes.
 - Training in ethical behavior.

Note: These learning outcomes were not part of our previous assessment plan, but are being submitted during Fall 2007 semester with our new proposed plan.

11. Justification for proposal. Please indicate how past assessments of student learning prompted proposed changes. **Over the last decade the complexities of computing in construction have greatly increased.**

Our students need to be exposed to a wide variety of construction related computing.

The vast majority of our students come prepared to engage in the computing work that is provided in the basic CIS course. The added work is beyond the scope of CIS 120

We are prepared to tutor deficiencies in basic computing skills, as we know this has become an important hiring criteria for our industry.

12. If this academic plan/subplan will require additional faculty, space, or equipment, how will these requirements be satisfied?


13. Will this academic plan/subplan affect other majors, liberal studies course offerings, plans/subplans, curricula, or enrollment at NAU? **NO**

If so, attach supporting documentation from the affected departments/units and college dean.

14. Will present library holdings support this academic plan/subplan?
Yes


Certifications

 _____ July 4th, 2007 9/24/07
 Department Chair/ Unit Head (if appropriate) Date

 _____ 9/24/07
 Chair of college curriculum committee Date

 _____ 24 Sept 07
 Dean of college Date

For committee use only

 _____ 10/16/07
 For University Curriculum Committee Date

Action taken: approved as submitted approved as modified

Note: Submit original to associate provost's office. That office will provide copies to the college dean, department chair, and Academic Information Office after approval.

Subject: RE: CIS 120
From: "Chopin, Marc" <Marc.Chopin@NAU.EDU>
Date: Mon, 16 Jul 2007 14:14:19 -0700
To: thomas.rogers@NAU.EDU

Tom,
I do not have any objections or concerns at this point--I'll let you know if I think of any. FYI, we have restructured CIS 120 so that the lab and lectures meet as one (one three hour class rather than a two hour lecture and one hour lab). With the size of our computer labs this effectively caps enrollment at 46 students. There are 48 machines in the labs. This fall we are running 19 sections of that course.

Let me know if there is any additional information I might provide.

Marc

Marc C. Chopin, PhD
Associate Dean
The W. A. Franke College of Business

Ph 928 523 7348
Fax 928 523 7331

-----Original Message-----

From: Thomas Rogers [mailto:thomas942@centurytel.net]
Sent: Thursday, July 05, 2007 2:50 PM
To: Marc.Chopin@NAU.EDU
Subject: CIS 120

Marc

The CM program has used CIS 120/L as our computing class for many years.

The CM faculty is moving to re-deploy our own previous computing class and replace CIS 120/L with CM 130. This may result in the reduction of about 50-60 enrollments per year in CIS 120 from CM.

This email is just sent as a notice and an opportunity for you to advise us of any of your concerns.

Please replay to this email so I can have a record for the curriculum committee, if it should come up,



Degree Progression Plan

Freshman Year							
1 st term				2 nd term			
CM 120	Intro to Building the Human Environment	3		CM 124	Construction Methods II	3	
CM 123	Construction Methods I	3		PHY 111	General Physics I (SCI: LAB)	3	
MAT 125	Pre-Calculus (FNRQ)	4		PHY 111L	General Physics I Lab (SCI: LAB)	1	
ENG 105	Critical Reading and Writing (FNRQ)	4		ACC 205	Legal Environment of Business	3	
<i>DIV</i>	Diversity	3		CM 130	Computing in Construction	3	
FYE 101	First Year Experience	1		SC 111	Fundamentals of Public Speaking (SPW)	3	
Total units				Total units			
18				16			

Sophomore Year							
3 rd term				4 th term			
CM 222	Construction Graphic	3		CM 220	Introduction to Structural Design	3	
CM 225	Masonry Systems	3		CM 224	Concrete Systems	3	
ECO 284	Microeconomics (SPW)	3		CM 253 or CENE 270	Surveying & Building Layout or Plane Surveying	3	
PHY 112	General Physics II (SCI: SAS)	3		ECO 285	Macroeconomics (SPW)	3	
PHY 112L	General Physics II Lab	1		STA 270	Statistics (SCI: SAS)	3	
ACC 255	Financial Accounting	3					
Total units				Total units			
16				15			

Junior Year							
5 th term				6 th term			
CM 326	Mechanical Systems	3		CM 341	Electrical Systems	3	
CM 329	Estimating & Bidding	3		JLWR	Junior Level Writing Requirement ****	3	
CM 388	Construction Scheduling	3		<i>BE</i>	Business Elective **	3	
CM 331	Structural Steel System	3		<i>LS</i>	Liberal Studies (AHI)	3	
CM 360	Soils Mechanics	3		<i>LS/DIV</i>	Liberal Studies(AHI)/Diversity ***	3	
Total units				Total units			
15				15			

Senior Year							
7 th term				8 th term			
CM 481	Construction Operations	3		CM 401	Ethics in Building	1	
MGT 303	Concepts of Management	3		CM 489	Construction Administration	3	
GLG 100	Introduction to Geology (SCI: SAS)	3		CM 490C	Construction Integration	3	
GLG 100L	Introduction to Geology Lab	1		CM 491	Construction Safety	3	
<i>BE</i>	Business Elective **	3		<i>LAN</i>	Modern Language (CU) *	4	
<i>LAN</i>	Modern Language (CU) *	4					
Total units				Total units			
17				14			

- This degree progression plan is to be used in conjunction with the academic catalog and degree progress report.
- Students should see an academic advisor regularly to confirm their academic progress.
- Students must see an academic advisor before enrollment for the 7th term in preparation for graduation.
- Many courses have pre-requisites. Please check the academic catalog for pre-requisite and placement information.
- Submit graduation application during 7th term.

PROGRAM INFORMATION

A minimum of 125 units are required for this degree.

* 8 units of the same modern language are required. Spanish is recommended.

** Business electives include 6 units from: FIN 303, MKT 303, ACC 256 or other approved business courses.

*** Take a liberal studies course that also satisfies a diversity requirement.

**** Junior level writing requirement includes 3 units from the following:

- ENG 302W
- ENG305W
- CM 302W

GENERAL INFORMATION

- Honors students complete different requirements to meet NAU's liberal studies program. Students should consult an Honors Program advisor for complete information on fulfilling Honors Liberal Studies requirements.
- All students are required to complete at least 120 total units which includes:
 - 35 units of liberal studies courses: <http://www4.nau.edu/aio/Articulation/LScourselist.htm>
 - 6 units of diversity courses: (3 units in Global & 3 units in Ethnic): The diversity requirement may be fulfilled in any part of the program of study.
<http://www4.nau.edu/aio/Articulation/DiversityCourseList/htm>
 - 30 units of upper division courses (300-400 level), 18 of these units must be taken at NAU
- English placement: <http://www.nau.edu/comp/placement.html>
- Math placement: <http://www.math.nau.edu/placement.html>

CONTACT INFORMATION

Engineering Programs
Building 69, Room 122A
Phone: 928-523-5251
Department Chair: Tom Rogers
Phone: 928-523-4679
Email: Thomas.Rogers@nau.edu

Debbie Wildermuth
Academic Services Coordinator
College of Engineering and Natural Sciences
Building 21, Room 102
Phone: 928-523-3842
Email: Debbie.Wildermuth@nau.edu

University Curriculum Committee

Proposal for new Academic Plan, Plan change, or Plan Deletion

1. College _____ 2. Academic Unit/Department _____

3. Academic Plan Name _____ 4. Subplan (if applicable)? _____

5. Effective Date FALL 2008

6. Is this proposal for a : New Plan Plan Change Plan Deletion
 New Subplan Subplan Change Subplan Deletion

7. For Plan Changes, place the existing catalog text in this column. Please copy and paste the text directly from the *current* on line academic catalog:
<http://www4.nau.edu/aio/AcademicCatalog/academiccatalogs.htm>
Be sure you include all catalog text that pertains to this plan change

For New Plans, leave this column blank.

Show the proposed changes in this column. Please **BOLD** the changes to differentiate from what is not changing. *and strike through what is being removed.*
(Describe the changed requirements under headings that match those used in the left column. Please be aware that if the units are not totaled correctly, the catalog editor will adjust them accordingly.)

8. For undergraduate plans, will this requirement be a student individualized plan*? no yes
 *A *Student Individualized Plan* is an academic requirement that varies by student, such as the 15-unit BAiLS focus, for which coursework requirements are established by the student in consultation with the advisor.
If yes, the academic unit listed at the top of this form hereby takes responsibility for providing complete information about each student's individual requirements for the degree audit system.

9. For undergraduate plans, will a milestone** be used to:
 a. verify satisfactory completion of a non course requirement.
 b. indicate admission to a major.
 c. will not be used.

**A *Milestone* is used to record noncourse requirements, such as the HRM 800-hour work experience requirement or admission to Business Major status.
If yes, the academic unit listed at the top of this form hereby takes responsibility for maintaining the milestone and keeping individual student records up to date.

10. Please list the Learning Outcomes of the Plan/Subplan (see degree major assessment webpage - <http://www4.nau.edu/assessment/main/degree/degree.htm>).

11. Justification for proposal. Please indicate how past assessments of student learning prompted proposed changes.

12. If this academic plan/subplan will require additional faculty, space, or equipment, how will these requirements be satisfied?

13. Will this academic plan/subplan affect other majors, liberal studies course offerings, plans/subplans, curricula, or enrollment at NAU?

If so, attach supporting documentation from the affected departments/units and college dean.

14. Will present library holdings support this academic plan/subplan?

Certifications

Department Chair/ Unit Head (if appropriate) Date

Chair of college curriculum committee Date

Dean of college Date

For committee use only

For University Curriculum Committee Date

Action taken: _____ approved as submitted _____ approved as modified

Note: Submit original to associate provost's office. That office will provide copies to the college dean, department chair, and Academic Information Office after approval.

University Curriculum Committee
Proposal for New Course

1. Is this course being proposed for Liberal Studies designation? Yes No
If yes, route completed form to Liberal Studies.
2. New course effective beginning what term and year? (ex. Spring 2008, Summer 2008) See effective dates schedule. _____
3. College _____ 4. Academic Unit /Department _____
5. Course subject/catalog number _____ 6. Units/Credit Hours _____
7. Long course title _____
(max 100 characters including spaces)
8. Short course title (max. 30 characters including spaces) _____
9. Catalog course description (max. 30 words, excluding requisites).
10. Grading option:
Letter grade Pass/Fail or Both
(If both, the course may only be offered one way for each respective section.)
11. Co-convened with _____ 11a. Date approved by UGC _____
(Must be approved by UGC prior to bringing to UCC. Both course syllabi must be presented)
12. Cross-listed with _____
(Please submit a single cross-listed syllabus that will be used for all cross-listed courses.)
13. May course be repeated for *additional* units? yes no
a. If yes, maximum units allowed? _____
b. If yes, may course be repeated for additional units in the same term? yes no
(ex. PES 100)
14. Prerequisites (must be completed **before** proposed course) _____
15. Corequisites (must be completed **with** proposed course) _____
16. Is the course needed for a new or existing plan of study (major, minor, certificate)? yes no
Name of plan? _____
Note: If required, a new plan or plan change form must be submitted with this request.

17. Is a potential equivalent course offered at a community college (lower division only) yes no
If yes, does it require listing in the *Course Equivalency Guide*? yes no
Please list, if known, the institution and subject/catalog number of the course _____

18. Names of current faculty qualified to teach this course: _____

19. Justification for new course, including unique features if applicable. (Attach proposed syllabus in the approved university format).

For Official AIO Use Only:

Component Type

Consent

Topics Course

If the course being submitted for approval is NOT a LIBERAL STUDIES course, please go to step 41.

LIBERAL STUDIES ONLY

Contact name: _____

Contact email: _____

Dept. Chair name: _____

Dept. Chair email: _____

College Contact name : _____

College Contact email: _____

20. This course is a Single section Multi-section

21. List names of faculty who may teach this course: _____

22. Section enrollment cap: _____

If this course is being submitted for approval as a new LIBERAL STUDIES course, please complete questions 23-25.

OR

If this course is being submitted for approval as a new JUNIOR LEVEL WRITING course, please complete questions 30-31.

OR

If this course is being submitted for approval as a new SENIOR CAPSTONE course, please complete questions 32-34.

NEW LIBERAL STUDIES COURSE

23. Distribution Block (check one): *If a topics course, must apply to ALL sections.*

Aesthetic and Humanistic Inquiry Cultural Understanding Science Social and Political Worlds

24. Skills (check two): *If a topics course, must apply to ALL sections.*

Effective Oral Communication Effective Writing Critical Thinking

Quantitative Reasoning Scientific Inquiry

25. Is this a topics course? Yes No

If YES, please complete questions 34-36. If NO, please go to question 42.

TOPICS COURSE ONLY

26. Identify the Student Learning Outcomes that will be found in ALL topic syllabi offered under this course number. _____

27. Explain by what method(s) Student Learning Outcomes will be assessed in ALL topic syllabi offered under this course number.

28. Please attach an example of a Topic Syllabus offered under this course number.

GO TO question 35

29. Explain by what method(s) Student Learning Outcomes will be assessed in ALL topic syllabi offered under this course number. _____

NEW JUNIOR LEVEL WRITING COURSE (refer to question 19)

30. To which degree programs offered by your department/academic unit does this proposal apply? _____

31. Do you intend to offer ABC 300 and ABC 300W? yes no
If no, please submit a course delete form for the ABC 300.

GO TO question 35

NEW SENIOR CAPSTONE COURSE (refer to question 19)

32. To which degree programs offered by your department/academic unit does this proposal apply? _____

33. Does this proposal replace or modify an existing course or experience? yes no
If yes, which course(s)? _____

34. Do you intend to offer ABC 400 and ABC 400C? yes no
If no, please submit a course delete form for the ABC 400.

35. Approvals

Department Chair (if appropriate) Date

Chair of college curriculum committee Date

Dean of college Date

For Committees use only

For Liberal Studies Committee Date

Action taken: _____ Approved as submitted _____ Approved as modified

For University Curriculum Committee Date

Action taken: _____ Approved as submitted _____ Approved as modified

University Curriculum Committee Proposal for Course Change

1. Is this course a Diversity or Liberal Studies Course? Liberal Studies Diversity Both

2. Course change effective beginning of what term and year?
(ex. Spring 2008, Summer 2008) *See effective dates calendar.* _____

3. College _____ 4. Academic Unit/Department _____

5. Current course subject/catalog number _____

6. Current catalog **title**, course **description** and **units**. (Cut and paste from current on-line academic catalog [/www4.nau.edu/aio/AcademicCatalog/academiccatalogs.htm](http://www4.nau.edu/aio/AcademicCatalog/academiccatalogs.htm)).

*Show the proposed changes in this column. Please **BOLD** the changes, to differentiate from what is not changing.*

7. Is this course required or an elective in any other plan (major, minor, certificate)? Yes No
If yes, explain and provide supporting documentation from the affected departments.

8. Does this change affect community college articulation? Yes No
If yes, explain how in the justification and provide supporting documentation from the affected institutions.

Is the course a Common Course as defined by your Articulation Task Force? Yes No
If yes, has the change been approved by the Articulation Task Force? Yes No

If this course has been listed in the *Course Equivalency Guide*, should that listing be left as is or be revised

If revised, how should it be revised? _____

IN THE FOLLOWING SECTION, COMPLETE ONLY WHAT IS CHANGING

Current course subject/catalog number	Proposed course subject/catalog number
Current number of units/credits	Proposed number of units/credits
Current Course Fee yes <input type="checkbox"/> no <input type="checkbox"/>	If subject or catalog number change Move <input type="checkbox"/> or Delete <input type="checkbox"/>
Current Grading Option* Letter Grade <input type="checkbox"/> Pass/Fail <input type="checkbox"/> or Both <input type="checkbox"/>	Proposed Grading Option* Letter Grade <input type="checkbox"/> Pass/Fail <input type="checkbox"/> or Both <input type="checkbox"/>
Current Repeat for additional Units	Proposed Repeat for additional Units
Current Max number of units	Proposed Max number of units
Current Prerequisite	Proposed Prerequisite
Current Co-requisite	Proposed Co-requisite
Current Co-Convene with	Proposed Co-Convene with
Current Cross List with	Proposed Cross List with
Do you want to remove this course from either the Liberal Studies Course list and or the Diversity Course list? Liberal Studies <input type="checkbox"/> Diversity <input type="checkbox"/>	

9. Justification for course change. Please indicate how past assessments of student learning prompted proposed changes.

10. Approvals

Department Chair/ Unit Head (if appropriate)/ Date

Chair of college curriculum committee/Date

Dean of college/Date

For Committee use only

For University Curriculum Committee/Date

Action taken: approved as submitted approved as modified

Only utilize form if proposing course for LIBERAL STUDIES designation.

LIBERAL STUDIES ONLY

Contact name: _____

Contact email: _____

Dept. Chair name: _____

Dept. Chair email: _____

College Contact name : _____

College Contact email: _____

1. This course is a Single section Multi-section
2. List names of faculty who may teach this course: _____
3. Section enrollment cap: _____

If this course is being submitted for approval as a new LIBERAL STUDIES course, please complete questions 4-6.
OR

If this course is being submitted for approval as a new JUNIOR LEVEL WRITING course, please complete questions 10-11.
OR

If this course is being submitted for approval as a new SENIOR CAPSTONE course, please complete questions 12 - 14.

NEW LIBERAL STUDIES COURSE

4. Distribution Block (check one): *If a topics course, must apply to ALL sections.*

Aesthetic and Humanistic Inquiry Cultural Understanding Science Social and Political Worlds

5. Skills (check two): *If a topics course, must apply to ALL sections.*

Effective Oral Communication Effective Writing Critical Thinking
Quantitative Reasoning Scientific Inquiry

6. Is this a topics course? Yes No

If YES, please complete questions 34-36. If NO, please go to question 42.

TOPICS COURSE ONLY

7. Identify the Student Learning Outcomes that will be found in ALL topic syllabi offered under this course number.

8. Explain by what method(s) Student Learning Outcomes will be assessed in ALL topic syllabi offered under this course number.

9. Please attach an example of a Topic Syllabus offered under this course number.

NEW JUNIOR LEVEL WRITING COURSE (refer to question 19)

10. To which degree programs offered by your department/academic unit does this proposal apply? _____

11. Do you intend to offer ABC 300 and ABC 300W? yes no

If no, please submit a course delete form for the ABC 300.

NEW SENIOR CAPSTONE COURSE (refer to question 19)

12. To which degree programs offered by your department/academic unit does this proposal apply? _____

13. Does this proposal replace or modify an existing course or experience? yes no

If yes, which course(s)? _____

14. Do you intend to offer ABC 400 and ABC 400C? yes no

If no, please submit a course delete form for the ABC 400.

University Curriculum Committee

Proposal for Course Deletion

1. Course deletion effective at the end of what term and year?
(ex. Spring 2008, Summer 2008) _____

2. College _____ 3. Academic Unit/Department _____

4. Current course subject and catalog number _____

5. Current catalog **title** _____

6. Is this a Liberal Studies Course or Diversity Course? Liberal Studies Diversity Both

7. Is this course currently cross listed or co-convened? Yes No
If yes, list course _____

8. Is course an elective? or required for an academic plan/subplan?
If required, for what academic plan/subplan? _____
If required, also submit *Proposal for Plan Change*.

9. Is this course required or an elective in any other plan?(major, minor, certificate) yes no
If yes, explain in the justification and provide supporting documentation from the affected departments. _____

10. Does this change affect community college articulation? Yes No
If yes, explain how in the justification and provide supporting documentation from the affected institutions.

Is the course a Common Course as defined by your Articulation Task Force? Yes No
If yes, has the changed been approved by the Articulation Task Force? Yes No
If this course is listed in the Course Equivalency Guide, should the listing be
changed to departmental elective credit **OR** changed to elective credit

11. Justification for course deletion.

12. Approvals

Department Chair/Unit Head (if appropriate)/ Date

Chair of college curriculum committee/ Date

Dean of college/Date

For Committee use only

For University Curriculum Committee/Date

Action taken: _____ approved as submitted _____ approved as modified

Note: Submit original to associate provost's office
