

## PROGRAM CHANGE DEPARTMENT OF MATHEMATICS & STATISTICS

**REVIEW ROUTING:**

	Signature	Review Recommendation	Review Date
Course Originator	<u>Kevin E. Charlowood</u>	<u>Approve</u>	<u>Aug 23, 2005</u>
Department	<u>Sam Blumberg</u>	<u>Approve</u>	<u>8-23-05</u>
Division	<u>Ronald J. Ash</u>	<u>Approve</u>	<u>9-23-05</u>
Dean CAS	<u>Gordon D. McBurre</u>	<u>Approve</u>	<u>9/27/05</u>
Curriculum Committee	<u>Lora B. Smith</u>	<u>Recommended</u>	<u>10/12/05</u>
Approved by College Faculty Council	<u>Michael E. Remondell</u>		
College Faculty	<u>BDM</u>	Approved	Date <u>10/26/05</u>

**Part I Prior Curriculum - Actuarial Science track**

The track in Actuarial Science currently requires 3 of the 4 insurance courses from the School of Business, chosen from BU 374 (Principles of Risk and Insurance), BU 375 (Property and Liability Insurance), BU 378 (Life Insurance), and BU 75 (Theory of Insurance). The latter three courses have not been regularly offered by SOBU in the past two years, due to lack of student demand.

**Part II New Curriculum**

We will now require Actuarial Science degree seekers to take all 3 of the following courses: BU 374 (Principles of Risk and Insurance), BU 381 (Business Finance), and BU 483 (Investments). All MA designated courses for the Actuarial Science requirements remain unchanged.



**WASHBURN UNIVERSITY**

School of Business

Date: July 29, 2005

To: Professors Kevin Charlwood and Mike Mosier  
Department of Mathematics, Washburn University

From: *Russ Smith*  
Russ Smith, Associate Dean, School of Business

Re: Changes in Business Courses Used in the Actuarial Program

Thank you very much for the opportunity to review your proposal to drop and add courses offered by the School of Business as requirements in the Actuarial Science Specialization within the Major in Mathematics.

We understand the proposal to be to:

- 1) no longer require BU 375 Property and Liability Insurance, BU 378 Life Insurance, and BU 475 Theory of Insurance;
- 2) to continue to require BU 374 Principles of Risk and Insurance; and
- 3) to add as requirements BU 381 Business Finance and BU 483 Investments.

From our point of view, the revised program will be much easier to administer since BU 381 and BU 483 are program requirements. BU 381 is required for all BBA students and is offered about three times per semester. BU 483 is required of all finance majors and is offered twice per year, generally once per semester. The three courses that are being dropped are offered, as you know, only occasionally when our two programs together think we can get reasonable enrollment in a section.

Thank you very much for consulting with us. We look forward to future collaboration in this program and in the other areas where we are using each other's courses.

Cc: Dean Sollars

## PROGRAM CHANGES/DELETIONS

	<u>Signature</u>	<u>Review Recommendation</u>	<u>Review Date</u>
Department	<u><i>Gary Schmidt</i></u>	<u>OK Yes</u>	<u>10-24-05</u>
Division	<u><i>Ronald J. Lee</i></u>	<u>Approved</u>	<u>10-28-05</u>
Dean	<u><i>Gordon McQuinn</i></u>	<u>Approved</u>	<u>10/28/05</u>
Dept. of Educ. (If course relates to teacher certification program.)	_____	_____	_____
Curriculum Committee	<u><i>Karen B. Smith</i></u>	<u>Reconsidered</u>	<u>11/2/05</u>
Accepted by CFC	<u><i>Michael E. Brumwell</i></u>	<u>Approved</u>	<u>11/16/05</u>
College Faculty	<u><i>BDM</i></u>	<u>Approved</u>	<u>12/29/05</u>

**General Information:** Change (X) Deletion ( )

1. Complete revised course description (including course number, title, credits, and prerequisites)

### Deletions

2. Is the course being deleted from the catalog being replaced with another course? yes ( ) no ( )

If so, please explain.

3. Is the content of this course being distributed to another course or group of courses?

### Changes

4. Describe the nature of the proposed change.

The current catalog (05-06) lists four choices of upper-division Math classes for the BS in Computer Information Sciences: MA310 Operations Research, MA330 Math Models, MA343 Applied Stats, and MA344 Math Stats. The students choose one class from this list. However, MA330 is now a capstone class and MA344 has MA343 as a prerequisite. We are removing MA330 and MA344 as choices, so that the student will choose to take either MA310 and MA343. We are aware that MA310 has not been offered in some time, but we hope it will be viable again if our enrollment increases.

5. Do you currently have the equipment and facilities to teach this class with the proposed change?

Yes

**PROGRAM CHANGE**

	Signature	Review Recommendation	Review Date
Department Chair	<u>[Signature]</u>	<u>Recommended Approval</u>	<u>4/25/05</u>
Division Chair	<u>[Signature]</u>	<u>Approval</u>	<u>10/05/05</u>
<u>Dept of Education</u> (If course relates to teacher certification program.)	<u>[Signature]</u>	<u>Recommended</u>	<u>11/2/05</u>
Curriculum Committee	<u>[Signature]</u>	<u>Approved</u>	<u>11/16/05</u>
Accepted by CFC	<u>[Signature]</u>	<u>Approved</u>	<u>10/12/05</u>
College Dean	<u>[Signature]</u>	<u>Approved</u>	<u>12/09/05</u>
College Faculty	<u>[Signature]</u>	<u>Approved</u>	
<b>General Information:</b>	Change (X)    Deletion ( )		

1. Complete revised course description (including course number, title, credits, and prerequisites)

Because of recent additions and deletions in the Athletic Training Major (BS degree program), formal notification and approval from various academic approval committees is necessary. The following courses have been added to or dropped from the Athletic Training curriculum. All Physical Education numbered courses are part of the Required Courses for the AT Major. Courses in Allied Health shall be part of the Correlated Requirements.

**PE 256, Sports Injury First Aid**, (no prerequisites) and **PE 357, Sports Performance and Reconditioning** (prerequisite: PE 326, Physiology of Exercise) are to be added.

**PE 258, Clinical Experiences in Athletic Training-Introduction** (1) and **PE 493, Clinical Experiences in Athletic Training-Capstone** (2) have also been added to the Athletic Training Required Courses. All students must have been admitted into the Athletic Training Education Program (ATEP) for both of these courses. In addition, PE 493 must have completed PE 455 (Organization and Administration of Athletic Training) and PE 492 (Clinical Experiences in Athletic Training-General Medical).

**AL 315, Allied Health Pharmacology** (no prerequisite) and **AL 320, Human Disease** (prerequisite: BI 275 and BI 255) to be added to be added as required correlated courses.

Total number of required hours for the Athletic Training major from within the PE course list is 48.

**Deletions**

2. Is the course being deleted from the catalog being replaced with another course? Yes ( ) No (X)

If so, please explain. Nothing is being deleted from the catalog.

3. Is the content of this course being distributed to another course or group of courses?

PE 256, Sports Injury First Aid (2) replaces PE 271 in the athletic training major curriculum.

PE 357, Sports Performance and Reconditioning (2) replaces PE 400 in the athletic training major curriculum.

PE 455, Organization and Administration of Athletic Training replaces PE 306, Administration of Physical Education and Athletics in the athletic training major curriculum.

AL 315, Allied Health Pharmacology (2) and AL 320, Human Disease (3) replaces NU 313 in the AT curriculum.

**Changes**

4. Describe the nature of the proposed change.

These modifications are designed to communicate program changes to University Registrar and Degree Auditors.

5. Do you currently have the equipment and facilities to teach this class with the proposed change?

Yes

**Washburn University**  
Department of Health, Physical Education and Exercise Science  
**Bachelor of Science (BS)**  
**Athletic Training Major Course of Study, Fall 2004**  
(Pre-requisites in parenthesis)

**PHYSICAL EDUCATION CORE COURSES (16 Departmental hours)**

HL 152 Personal & Community Health	(3)
PE 250 Introduction to Human Movement Studies	(2)
PE 256 Sports Injury First Aid/CPR	(2)
PE 321 Kinesiology (BI 275)	(3)
PE 326 Exercise Physiology (BI 255)	(3)
PE 320 Motor Learning	(3)
PE 440 Measurement and Evaluation	(3)

**ATHLETIC TRAINING REQUIREMENTS (32 hours)**

PE 257 Prevention and Care of Athletic Injuries (BI 275, PE 271)	(3)
PE 258 Athletic Training Clinical-Introduction (formal admission required)	(1)
PE 300 Psychology of Sport and Physical Activity	(3)
PE 308 Nutrition for Sports & Fitness	(3)
PE 350 Evaluation of Athletic Injuries (PE 257)	(4)
PE 355 Therapeutic Modalities & Exercise in Injury Management (PE 350)	(3)
PE 357 Sports Performance and Reconditioning (PE 326)	(2)
PE 455 Organization and Administration of Athletic Training (PE 257)	(3)
PE 292 Clinical Experience in Athletic Training - Basic Skills (PE 256, 257)	(2)
PE 392 Clinical Experience in Athletic Training - Evaluation (PE 350)	(2)
PE 393 Clinical Experience in Athletic Training - Rehabilitation (PE 355, 357)	(2)
PE 492 Clinical Experience in Athletic Training - General Medical (AL 315, AL 320)	(2)
PE 493 Clinical Experience in Athletic Training - Capstone (PE 455, 492)	(2)

**CORRELATED COURSES (35-hours)**

BI 100/01 Intro Biology/Lab (or BI 102, Cellular Biology)	(5)
BI 255 Elementary Human Physiology (BI 100, 101, or 102)	(4)
BI 275 Human Anatomy (BI 100, 101, or 102)	(4)
CH 121 General Chemistry (or CH 151 Fundamentals of Chemistry)	(5)
IS 170 Library Research Strategies	(1)
PE 333 Microcomputer Applications (or CM 212, 3 cr.)	(2)
PS 101 Introduction to Physics (or PS 261 College Physics)	(3)
SO 100 Introduction to Sociology	(3)
SO 315 Sociology of Sport (SO 100)	(3)
AL 315 Allied Health Pharmacology (BI 255)	(2)
AL 320 Human Disease (BI 255)	(3)

**NATURAL SCIENCE MINOR CONCENTRATION - (30 hours)**

Thirty credits required, twenty from one area. Natural Science credits (listed above) apply.

Revised: Spring 2004

**PROGRAM CHANGE**

	Signature	Review Recommendation	Review Date
Department	<u>W. Spaul</u>	<u>Recommended Approval</u>	<u>10/11/05</u>
Division	<u>Ross Friese</u>	<u>Approval</u>	<u>11/2/05</u>
Curriculum Committee	<u>Loran B. Smith</u>	<u>Recommended</u>	<u>11/30/05</u>
Accepted by CFC	<u>Michael J. Russell</u>	<u>Approved</u>	<u>12/7/05</u>
College Dean	<u> Gordon D. Magno</u>	<u>Approved</u>	<u>11/8/05</u>
College Faculty	<u>BD</u>	<u>Approved</u>	<u>12/09/05</u>

**General Information:** Change (X) Deletion ( )

1. Complete revised course description (including course number, title, credits, and prerequisites)
- Because of changes in course offerings in the School of Business, additions/deletions in electives in the Sport Management concentration are necessary. The following courses have been added as electives in the concentration area of the sport management concentration:
- BU 364, Consumer Behavior (3)** (prerequisite: BU 360)
  - BU 470 Entrepreneurship Clinic (3)** (prerequisite: BU 315 and BU 260)

- The following courses are being eliminated as electives in the concentration area of the sport management concentration:
- BU 366 Sales (3)**
  - AC 225 Managerial Accounting (3)**

**Deletions**

2. Is the course being deleted from the catalog being replaced with another course? Yes ( ) No ( )

If so, please explain. \_\_\_\_\_

3. Is the content of this course being distributed to another course or group of courses?

**Changes**

4. Describe the nature of the proposed change. Modifications are designed to give students in this concentration a larger number of courses to choose from for their six credits of Business electives. BU 366 - Sales is no longer being offered by the School of Business.

5. Do you currently have the equipment and facilities to teach this class with the proposed change?

Yes \_\_\_\_\_

**CORE REQUIREMENTS (C minimum) - 21 credits**

- \_\_\_\_\_ HL 152 Personal & Community Health (3)
- \_\_\_\_\_ PE 250 Introduction to Human Movement Studies (2; take within first 2 semesters in HPEES)
- \_\_\_\_\_ PE 271 First Aid (2)
- \_\_\_\_\_ PE 320 Motor Learning (3)
- \_\_\_\_\_ PE 321 Kinesiology (3) (BI 250/275)\*
- \_\_\_\_\_ PE 326 Exercise Physiology (3) (BI 255)\*
- \_\_\_\_\_ PE 440 Measurement & Evaluation (3) (MA 110/116)\*
- \_\_\_\_\_ PE 496 Synthesis & Application (2) (all core courses)\*

**INTEREST AREA COURSES (C minimum) 12 hours PE courses: 6-200+, 6-300+**

- \_\_\_\_\_ PE 306 **Administration of Athletics, Intramurals & PE** (3)
- \_\_\_\_\_ PE 370 **Facility and Event Management** (3)
- \_\_\_\_\_ PE 494 **Internship (6-12) (all common and concentration courses)\* 3 CREDITS FOR INTEREST AREA**
- \_\_\_\_\_ PE \_\_\_\_\_ ( )

**ADDITIONAL CONCENTRATION COURSES - 24-30 credits (including internship hours listed above)**

- \_\_\_\_\_ BU 360 **Marketing** (3) (EC 200, EC201, 2.0 gpa, 54 hrs)\*
- \_\_\_\_\_ AC 224 **Financial Accounting** (3) (EN 101, MA 116/110, 24 hrs)\*
- \_\_\_\_\_ SO 315 **Sociology of Sport** (3) (SO 100)\*
- 3 credits from the following:
  - \_\_\_\_\_ BU 342 **Organization & Management** (3) (EC 200, EC 201, 2 of AN 112, PY 100, SO 100, 2.0, 54 hrs)\*
  - \_\_\_\_\_ BU 345 **Human Resources Mgmt.** (3) (EC 200, EC 201, 54 hrs)\*
  - \_\_\_\_\_ BU 346 **Organizational Behavior** (3) (PY 100 or SO 100, 54 hrs)\*
- 6 credits from the following: (3 must be upper division)
  - \_\_\_\_\_ AC 225 **Managerial Accounting** (3)
  - \_\_\_\_\_ BU 250 **Management Info Systems** (3), (CM 101 or consent, EN 101, MA 116/110, 24 hrs)\*
  - \_\_\_\_\_ BU 315 **Legal Environment of Business** (3) (EC200, EC 201, 2.0 gpa, 54 hrs)\*
  - \_\_\_\_\_ BU 363 **Promotion** (3) (BU 360)\*
  - \_\_\_\_\_ BU 366 **Sales** (3)
  - \_\_\_\_\_ BU 364 **Consumer Behavior** (3) (BU 360)\*
  - \_\_\_\_\_ BU 470 **Entrepreneurship Clinic** (3) (BU 315, BU 260)\*

**ACTIVITY REQUIREMENTS (C minimum) - 4 credits (Note: does not include PE 198 for General Education)**

- PE activity or PE 260/261/360/361/400 (if not used in interest area)
- \_\_\_\_\_ PE \_\_\_\_\_ ( ) \_\_\_\_\_ PE \_\_\_\_\_ ( )
- \_\_\_\_\_ PE \_\_\_\_\_ ( ) \_\_\_\_\_ PE \_\_\_\_\_ ( )

**CORRELATED REQUIREMENTS (C minimum) - 9-10 credits**

- \_\_\_\_\_ PE 333 Microcomputers in PE (2) OR CM 212-Microcomputer Techniques (3) spring
- \_\_\_\_\_ BI 250 Introduction to Human Anatomy (3) (BI 100)\*
- \_\_\_\_\_ BI 255 Elementary Human Physiology (4) (BI 100)\*

**COMPLETION OF GENERAL EDUCATION REQUIREMENTS**

- \_\_\_\_\_ PE 198 Lifetime Wellness (2) \_\_\_\_\_\*\*
- \_\_\_\_\_ EN 101 Freshman Composition (3)(C min) OR HN 102-Honors English
- \_\_\_\_\_ EN 300 Advanced Composition (3) (C minimum)
- \_\_\_\_\_ MA 116 College Algebra (3) (C minimum) [recommended for BU courses]  
OR MA 110-Exploring Mathematics (3) OR HIGHER math class (C minimum)  
Foreign language @ 102 level / test-out / AP or CLEP = 4 / non-English native language

**NATURAL SCIENCES: 12 CREDITS from minimum 3 areas: BI, CH, IS170, PS, AS, GL, MA;**

- max 6 credits from one area APPROVED LIST ONLY or AA
- \_\_\_\_\_ BI 100,101 Introduction to Biology with Health Emphasis/Lab (5)\*\*

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

**SOCIAL SCIENCES: 15 CREDITS from at least 3 areas; max 6 credits from one area:**

- PO, HI, IS 170, PY, EC, SO, AN, GS or HN 202-Honors Seminar, APPROVED LIST ONLY or AA
- \_\_\_\_\_ SO 100 General Sociology (3)
  - \_\_\_\_\_ EC 200 **Principles of Microeconomics** (3) (MA 116/110 +24 hrs, or consent) [formerly EC 202]
  - \_\_\_\_\_ EC 201 **Principles of Macroeconomics** (3) (EC 200, MA 116/110, 24 hrs, or consent)

\_\_\_\_\_ ( )

\_\_\_\_\_ ( )

**HUMANITIES: 15 CREDITS from at least 3 areas: max 6 credits from one area: 3 must be from AR, MU, or TH:**

- AR, CN, EN, FR/GE/SP, IS170, MM, MU, PH, RG, TH, APPROVED LIST ONLY! or AA
- \_\_\_\_\_ MM 100 **Introduction to Mass Media** (3)

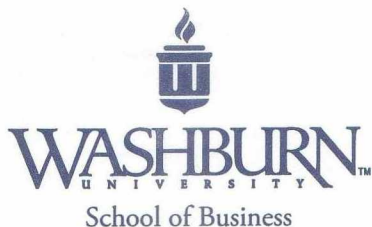
\_\_\_\_\_ ( ) \_\_\_\_\_ ( )

\_\_\_\_\_ ( ) \_\_\_\_\_ ( )

\*Prerequisite

\*\*May be taken pass/fail (Italicized, bold items are required for the concentration.)





Date: October 14, 2005

To: Ross Friesen  
Department of Health, Physical Education, and Exercise Science

From: Russ Smith, Associate Dean, School of Business

Re: Changes in Business Courses Used in the Sport Management Program

Thank you very much for the opportunity to review your department's proposal to drop and add courses offered by the School of Business as concentration requirements in the Sport Management Concentration within the Bachelor of Arts in Physical Education degree program.

We understand the proposal to be to make changes within the list of courses that can be used for the required six hours of electives from courses offered by the School of Business, and specifically to:

- 1) drop from the list BU 366 Sales and AC 225 Managerial Accounting and
- 2) add to the list BU 364 Consumer Behavior and BU 470 Entrepreneurial Clinic.

We anticipate no problems with the revisions, which increase the number of options that are realistically available to the students in the program. For example, BU 364 Consumer Behavior is a program requirement in the marketing major and is offered every semester. BU 470 Entrepreneurial Clinic is offered less frequently, but is available, unlike BU 366 Sales, which we don't anticipate offering at the present time.

Thank you very much for consulting with us. We look forward to future collaboration on this program and in the other areas of mutual interest.

Cc: Dean Sollars

## PROGRAM CHANGES/DELETIONS

	<u>Signature</u>	<u>Review Recommendation</u>	<u>Review Date</u>
Department	<u>W. Spaul</u>	<u>Approve</u>	<u>11/02/05</u>
Division	<u>Ross Friesen</u>	<u>Approve</u>	<u>11/2/05</u>
Dean	<u>Cordell McQueen</u>	<u>Approved</u>	<u>11/8/05</u>
Dept. of Educ. <small>(If course relates to teacher certification program.)</small>	_____	_____	_____
Curriculum Committee	<u>Loren B. Smith</u>	<u>Recommnded</u>	<u>11/30/05</u>
Accepted by CFC	<u>Michael H. Russell</u>	<u>Approved</u>	<u>12/7/05</u>
College Faculty	<u>BDMH</u>	<u>Approved</u>	<u>12/09/05</u>

**General Information:** Change ( ) Deletion ( x )

1. Complete revised program description.

Under "The major in Physical Education: Bachelor of Arts Degree": "The Physical Education core requirements include the following 19 credits: HL 152, PE 250, PE 320, PE 321, PE 326, PE 440, PE 496."

Explanation: PE 271 - First Aid is removed from the list of core requirements for the B.A. degree.

### Deletions

2. Is the course being deleted from the program being replaced with another course? yes ( ) no ( x )
3. Is the content of this course being distributed to another part of the program? yes ( x ) no ( )

PE 271 - First Aid will become a prerequisite for PE 494/495 Internship. All B.A. concentrations currently require the internship.

Explanation: The core curriculum includes principal subdisciplines that contribute unique theoretical approaches to the study of health and human movement. First Aid does not meet this test.

However, the department values its content and is therefore providing for it in a different manner.

### Changes

4. Describe the nature of the proposed change.
5. Do you currently have the equipment and facilities to teach this class with the proposed change?



## BACHELOR OF ARTS DEGREE, HPEES

Core	Introduction to Human Movement Studies Personal & Community Health <b>First Aid</b> Motor Learning Kinesiology Exercise Physiology Measurement & Evaluation Synthesis & Application
Correlated	microcomputer course Introduction to Human Anatomy Elementary Human Physiology
Activity	4 credits activity/teaching techniques/exercise leadership
Interest area	12 hrs PE electives (6 @ 200+, 6 @ 300+) May be met by concentration credits in PE

### **HEALTH ED. & PROMOTION: 44 +3**

Nutrition for Sport & Fitness  
Fitness Testing & Ex. Prescription  
Stress Management  
Introduction to Addictions  
Adult Theories in Aging  
Principles of Health Ed & Promotion  
Human Disease  
Health Psychology  
Critical Issues in Health  
Health Ed. & Prom. Prog Plan & Eval  
Library Research Strategies  
Statistics  
Psychology (Basic/of Adjustment)  
Bus/Prof. Speaking/Public Speaking  
**Internship (requires first aid & CPR)**  
*[includes 9 credits PE Electives, need 3 @ 200+]*

### **PHYSICAL THERAPIST ASSISTANT: 32 +12 hrs**

Introduction to Physical Therapy  
Introduction to Disease  
Procedures I-V  
Clinical I-III (**substitutes for internship**)  
Issues  
*[includes no PE elective credits;  
need 6 @ 200+, 6 @ 300+]*

### **FLEXIBLE OPTION: 28 hr. min.**

Minimum of 27 credits in an area of interest, approved by department

#### **Internship (requires first aid & CPR)**

*[# hrs PE electives will vary]*

### **EXERCISE PHYSIOLOGY: 34 hrs**

Prevention & Care of Athletic Injuries  
Psychology of Sport & Phys. Activity  
Nutrition for Sport & Fitness  
Planning and Leading Exercise  
Fitness Testing & Ex. Prescription  
Current Literature In Ex. Physiology  
Basic Concepts in Psychology  
Statistics  
Sociology of Sport  
General Chemistry  
Introduction to Physics  
**Internship (requires first aid & CPR)**  
*[meets PE elective requirement]*

### **SPORT MANAGEMENT: 39 +3 hrs**

Administration of Athletics, Intramurals & PE  
Facility and Event Management  
Marketing  
Financial Accounting  
Micro & Macroeconomics  
3: BU 342, 345, 346  
6: BU 250, 315, 363, 366, AC 225.  
Sociology of Sport  
Intro to Mass Media  
**Internship (requires first aid & CPR)**  
*[includes 9 credits PE electives; need 3@200+]*

## PROGRAM CHANGES/DELETIONS

<u>Signature</u>	<u>Review Recommendation</u>	<u>Review Date</u>
Department <u>Meredith A. Moore</u>	<u>approve</u>	<u>10.7.05</u>
Division <u>Thomas C. Kennedy</u>	<u>approved</u>	<u>11.7.05</u>
Dean <u>Gordon D. McGuire</u>	<u>Approved</u>	<u>11/8/05</u>
Dept. of Educ. _____ (If course relates to teacher certification program.)		
Curriculum Committee <u>Lora B. Smith</u>	<u>Recommend</u>	<u>11/30/05</u>
Accepted by CFC _____		<u>12/7/05</u>
College Faculty <u>BDM/TJ</u>		<u>12/09/05</u>
<b><u>General Information:</u></b> Change <input checked="" type="checkbox"/> Deletion <input type="checkbox"/>		

1. Complete program description.

Admission to the communication major requires a 2.5 gpa and sophomore status.

### Deletions

2. Is the course being deleted from the catalog being replaced with another course? yes ( ) no ( )

If so, please explain.

3. Is the content of this course being distributed to another course or group of courses?

### Changes

4. Describe the nature of the proposed change.

5. Do you currently have the equipment and facilities to teach this class with the proposed change?

## CHANGES AND DELETIONS IN PROGRAM

	Signature	Review Recommendation	Review Date
Department	<u>Lee Boyd</u>	<u>Approve</u>	<u>10/27/2005</u>
Division	<u>Ronald An</u>	<u>Approved</u>	<u>10/28/05</u>
Dean	<u>Gordon D. McQuere</u>	<u>Approved</u>	<u>10/28/05</u>
College Faculty Dept. of Educ. (If course relates to teacher certification program)	_____	_____	_____
Curriculum Committee	<u>Loren B. Smith</u>	<u>Recommended</u>	<u>11/30/05</u>
Accepted by CFC College Faculty	<u>BDM</u>	<u>K. P. Parnell</u>	<u>12/7/05</u>
<b>General Information:</b>	Change ( <input checked="" type="checkbox"/> )	Deletion ( <input type="checkbox"/> )	<u>12/9/05</u>

1. Complete revised course description (including course number, title, credits, and prerequisites)  
This is a revision of the Biology minor (see below)

### Deletions

2. Is the course being deleted from the catalog being replaced with another course? yes ( ) no (  )
3. Is the content of this course being distributed to another course or group of courses? NA

### Changes

4. Describe the nature of the proposed change.

THE MINOR (optional minor for the Bachelor of Arts degree)

To minor in Biology the student must apply to the department and be assigned a Biology advisor. The twenty hour minimum must be met with course work appropriate for Biology majors, and must include BI102, BI 105 and/or BI110. At least 8 of the remaining hours must be 300 level or higher course work.. No fewer than 10 hours of this minor must have been completed at Washburn University. Students must have a grade of C or better in each course taken to fulfill the minor.

#### Rationale

Being assigned an advisor in the department will help the student make appropriate choices and navigate pre-requisites, and is consistent with the policy of other departments (for example History, Psychology, Theater).

In the proposed language we stipulated only the lower division courses which are pre-requisites for upper division work, thus allowing students to tailor the minor to their needs with a wider selection of upper division course work than at present.

Finally, we follow the lead of other departments in the Natural Science and Mathematics Division by requiring some hours to have been completed at Washburn.

5. Do you currently have the equipment and facilities to teach this class with the proposed change?  
Yes (NA)

## PROGRAM CHANGES/DELETIONS

	Signature	Review Recommendation	Review Date
Department	<u>Chemistry: SFA/ASJ</u>	<u>approve</u>	<u>11/18/05</u>
Division	<u>Ronald J. Ash</u>	<u>approve</u>	<u>11/22/05</u>
Dean	<u>Gordon D. McQuinn</u>	<u>Approve</u>	<u>11/28/05</u>
Dept. of Educ. (If course relates to teacher certification program.)	_____	_____	_____
Curriculum Committee	<u>Loren B. Ash</u>	<u>Recommend</u>	<u>11/30/05</u>
Accepted by CFC	<u>Michael K. Russell</u>	<u>Approved</u>	<u>12/7/05</u>
College Faculty	<u>EDM H</u>	<u>Approved</u>	<u>12/9/05</u>

**General Information:** Change (X) Deletion ( )

- Complete revised course description (including course number, title, credits, and prerequisites)

For the BS major certified by the American Chemical Society, at least 44 hours in the department are required, including the chemistry core, chemistry 345, 346, 350, 362, 382, 386, 390 (2cr), 391 and their chemistry prerequisites. Students are encouraged to take additional chemistry courses beyond the 44 hour minimum requirement. One year of German, Russian or French, or at least six credit hours in computer programming language course, ~~(Fortran and C programming)~~ two semesters of a programming language, one year of Calculus, and one year of Physics are required.

### Deletions

- Is the course being deleted from the catalog being replaced with another course? yes ( ) no (X)

If so, please explain. \_\_\_\_\_

- Is the content of this course being distributed to another course or group of courses? No

## Changes

4. Describe the nature of the proposed change.

**More general requirements used to reflect changing nature of programming language and CIS course offerings.**

5. Do you currently have the equipment and facilities to teach this class with the proposed change?

**Yes**