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Undergraduate Curriculum and Academic Policy Undergraduate Curriculum and Academic Policy  
Committee Minutes Committee

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10-23-2006

### Undergraduate Curriculum and Academic Policy Committee Minutes, October 23, 2006

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# Undergraduate Curriculum and Academic Policy Committee

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## Minutes of October 23, 2006 Meeting

**Present:** Candace Cherrington, Quingbo Huang, Shelley Jagow, Jeanne Fraker, Krystal Karshner, Nathan Klingbeil, Joe Law, Bobbie Pohlman, Tom Sav, David Seitz, Carol Wagner-Williams. Guests: Tony Ortiz (CEHS), Marian Hogue (Registrar).

**Approved Minutes** of September 27, 2006.

### **WSU Student Transcripts via Banner**

The chair reported that Todd Brittingham, Associate Registrar, contacted him and announced that with the implementation of Banner there is now the capability to record and display concentrations (sub definitions of majors including options and tracks) on student transcripts. Discussions took place and while he has received some requests from colleges/departments to display such on transcripts, presently there is no mechanism to determine the population of concentrations, etc. existing at WSU that Banner can see and integrate into the system. Therefore, a department/college must contact Todd Brittingham to inform him of the wish to include existing concentrations, etc. on the transcripts of all students completing the curriculum requirements of those concentrations, etc. Of course, **only "existing approved" concentrations, etc. that have gone through the Faculty Senate and UCAPC processes are allowable.** Todd may be contacted

Phone: 937/775-5583

Email: [todd.brittingham@wright.edu](mailto:todd.brittingham@wright.edu)

### **UCAPC Subcommittee Reports**

Writing Across the Curriculum Committee (WAC) -- Joe Law, Chair, reported that the committee is meeting today, October 23, at 4:00.

University General Education Committee (UGEC) -- Susan Carrafiello, Chair, was unable to attend the meeting.

Undergraduate Academic Program Review Committee (UAPRC) -- Rudy Fichtenbaum, Chair (Tom Sav reporting for him). Notice of the 2006-07 program reviews have been sent to the appropriate colleges and departments as follows:

**Management Information Systems (B.S.B.)**  
**Operations Management (B.S.B.)**  
**Management (B.S.B.)**  
**Finance (B.S.B.)**  
**Financial Services (B.S.B.)**  
**International Business (B.S.B.)**  
**Business and Administration (A.S., Lake Campus)**  
**Music**  
    **Music (B.A.)**  
    **Music History & Literature (B.M.)**  
    **Music Performance (B.M.)**  
    **Music Education (B.M.)**  
**Communication**

**Communication Studies (B.A.)**  
**Mass Communication (B.A.)**  
**Organizational Communication (B.A.)**  
**Social & Industrial Communication (B.A.)—dual major**  
**Communication (A.A., Lake Campus)**  
**Criminal Justice (B.A.)**  
**Political Science (B.S.)**  
**Sociology (B.A.)**  
**Anthropology (B.A.)**

The programs under review for this academic year are listed at the UAPRC website and several reviews of the completed 2005-06 reviews, as well as procedures for submitting reviews, are available at the same site as follows:

[UAPRC Website](#)

## **Course Inventory and Modification Requests**

### **CECS**

Approved Inventories: CEG 410\*, EE 437, CS 225, CS 315, CEG 330, CEG 403\*, CEG 404\*, CEG 436, ME 360

Approved Modifications: ME 220, EE 421\*, EE 473\*, EE 474\*, EE 476\*, CS 205\*, CS 207, CS 214, CEG 255, CEG 260, CS 302, CEG 320, CEG 453, CS 470, CEG 498, CS 240, CS 241, CS 242\*, CEG 433\*, CEG 434\*

\* The committee had to make changes to the proposals so as to conform to curriculum requirements, including but not limited to course titles for student records and catalog descriptions. Questions concerning such changes can be addressed to the CECS representative.

### **CEHS**

Approved Inventories: ATR 482

Approved Modifications: ATR 284\*, ATR 303, ATR 361, ATR 384\*, ATR 386\*, ATR 460, ATR 484, ATR 486\*

\* The committee had to make changes to the proposals so as to conform to curriculum requirements, including but not limited to course titles for student records and catalog descriptions. Questions concerning such changes can be addressed to the CEHS representative.

### **COLA**

Approved Modifications: DAN 103, DAN 112, DAN 212, DAN 431, DAN 432

### **COSM**

Approved Inventories: MTH 303\*, MTH 304\*

\* The committee had to make changes to the proposals so as to conform to curriculum requirements, including but not limited to course titles for student records and catalog descriptions. Questions concerning such changes can be addressed to the COSM representatives.

## **Program Changes**

### **CECS**

Approved

[B.S. Biomedical Engineering, Curriculum A: Traditional BME Program](#)

[B.S. Biomedical Engineering, Curriculum B: BME Premedical Program](#)

[B.S. Industrial & Systems Engineering](#)

[B.S. Electrical Engineering, Wireless Engineering \(WiE\) Option](#)

[B.S. Electrical Engineering, Sensor Engineering \(SnE\) Option](#)

**CEHS**

Approved

**B.S. Athletic Training\***

B.S. Ed. Middle Childhood (concentrations as follows):

**Language Arts & Social Studies**

**Language Arts & Math**

**Language Arts & Science\*\***

**Social Studies & Math**

**Social Studies & Science**

**Math & Science**

\* The committee corrected the General Education, Area I incorrect hours from 8 to 12 hours and the chair corrected the electronic copy forwarded that was also incorrect and, additionally, differed in format from the paper copy provided to the committee (the chair corrected the format differences on the electronic version above).

\*\* The committee corrected the General Education, Area III incorrect course numbers for EC, PLS, PSY, SOC, WMS. Questions concerning such changes can be addressed to the CEHS representative.

**COSM**

Approved (as required, the Honors Program in Mathematics was previously approved by the University Honors Committee)

**B.S. Integrated Science for Educators**

**Honors Program in Mathematics**

**New Programs**

**LC**

Tabled the following two proposals --The LC proposed to offer the two B.A. programs listed below. However, it was announced to the committee that the proposals have not received complete and appropriate review by the departments in the COLA, the COLA Curriculum Committee, or the COLA Faculty. UCAPC Tabled the proposals. The LC is encouraged to work with the COLA through this curriculum process.

**B.A. Liberal Studies**

**B.A. English**

**Adjourned: Next meeting November 13 and relevant deadlines for submission as well as Senate approvals as follows:**

<b>UCAPC Meeting</b>	<b>UCAPC Submission Deadline (No Exceptions: receipt after forwards to the next meeting)</b>	<b>Faculty Senate Meeting New Business</b>	<b>Faculty Senate Meeting Old Business</b>
Current Meeting October 23		November 6	January 8
November 13	November 1, 12:00 Noon	January 8	February 5

# College of Engineering and Computer Science

## Bachelor of Science in Biomedical Engineering

### Curriculum A: Traditional BME Program

Old BME A effective Fall 2004

New BME A effective Fall 2006

<b>I. General Education Requirements*</b>	<b>66</b>
Required Substitutions	
Area One	18
MTH 229, 230	
Area Two	8
Area Three	8
Area Four	12
Area Five	16
PHY 240/200, 242/202, 244/204	
Area Six	4
College Component: EGR 190**	

\*Courses taken to satisfy GE requirements may not be counted toward the major  
 \*\*For incoming freshmen only. Other students should consult a department advisor.

<b>II. Engineering Requirements</b>	<b>97</b>
Core Engineering Requirements	
CEG 220	4
EE 301/302, 321	9
EGR 101	5
ISE 301, 307	8
ME 212, 213, 315	12
Major Courses	
BME 195, 419, 420, 422, 428, 439, 440, 460, 461	32
BME 462, 463, 464, 470, 471, 491, 492, 402, 493, 403	27

<b>III. Related Course Requirements</b>	<b>33</b>
BIO 112, 278, 279	13
CHM 121, 122	10
MTH 231, 232	10
<b>Total</b>	<b>196</b>

<b>I. General Education Requirements*</b>	<b>66</b>
Required Substitutions	
Area One	18
MTH 229, 230	
Area Two	8
Area Three	8
Area Four	4
Additional Courses from areas II, III and IV	8
Area Five (PHY 240/200, 242/202, 244/204)	16
Area Six	4
College Component: EGR 190**	

\*Courses taken to satisfy GE requirements may not be counted toward the major  
 \*\*For incoming freshmen only. Students with more than 45 credit hours are required to take ISE 210.

<b>II. Engineering Requirements</b>	<b>95</b>
Core Engineering Requirements	
CEG 220	4
EE 301/302, 321	9
EGR 101	5
ISE 301, 407	8
ME 212, 213	8
Major Courses	
BME 195, 419, 420, 422, 428, 439, 440, 460, 461	34
BME 462, 463, 464, 470, 471, 491, 492, 402, 493, 403	27

<b>III. Related Course Requirements</b>	<b>33</b>
BIO 112, 278, 279	13
CHM 121, 122	10
MTH 231, 235	10
<b>Total</b>	<b>194</b>

\* Students may substitute BME 485 for either BME 422 or BME 439

# College of Engineering and Computer Science

## Bachelor of Science in Biomedical Engineering

Curriculum B: BME Premedical Program

New BME B effective Fall 2004

New BME B effective Fall 2006

<b>I. General Education Requirements*</b>	<b>66</b>
Required Substitutions	
Area One	18
MTH 229, 230	
Area Two	8
Area Three	8
Area Four	12
Area Five	16
PHY 240/200, 242/202, 244/204	
Area Six	4
College Component: EGR 190**	

<b>I. General Education Requirements*</b>	<b>66</b>
Required Substitutions	
Area One	18
MTH 229, 230	
Area Two	8
Area Three	8
Area Four	4
Additional Courses from areas II, III and IV	8
Area Five (PHY 240/200, 242/202, 244/204)	16
Area Six	4
College Component: EGR 190**	

\*Courses taken to satisfy GE requirements may not be counted toward the major

\*\*For incoming freshmen only. Other students should consult a department advisor.

\*Courses taken to satisfy GE requirements may not be counted toward the major

\*\*For incoming freshmen only. Students with more than 45 credit hours are required to take ISE 210.

<b>Additional courses for pre-med requirements</b>	<b>23</b>
CHM 123, 211 & 215, 212 & 216, 213 & 217	

<b>Additional courses for pre-med requirements</b>	<b>23</b>
CHM 123, 211 & 215, 212 & 216, 213 & 217	

<b>II. Engineering Requirements</b>	<b>85</b>
Core Engineering Requirements	
CEG 220	4
EE 301/302, 321	9
EGR 101	5
ISE 301	4
ME 212, 213, 315	12

<b>II. Engineering Requirements</b>	<b>83</b>
Core Engineering Requirements	
CEG 220	4
EE 301/302, 321	9
EGR 101	5
ISE 301	4
ME 212, 213	8

Major Courses	
BME 195, 419, 420, 422, 428, 439, 440, 460	28
BME 461, 462, 463, 464, 491, 492, 402, 493, 403	23

Major Courses	
BME 195, 419, 420, 422, 428, 439, 440, 460	30
BME 461, 462, 463, 464, 491, 492, 402, 493, 403	23

<b>III. Related Course Requirements</b>	<b>33</b>
BIO 112, 278, 279	13
CHM 121, 122	10
MTH 231, 232	10

<b>III. Related Course Requirements</b>	<b>33</b>
BIO 112, 278, 279	13
CHM 121, 122	10
MTH 231, 235	10

<b>Total</b>	<b>207</b>
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<b>Total</b>	<b>205</b>
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\* Students may substitute BME 470/471 for BME 422/439

\* Students may substitute BME 470/471 for BME 422/439

# College of Engineering and Computer Science

## Bachelor of Science in Industrial and Systems Engineering

Revised ISE 2005-2006

2006-2007

<b>I. General Education Requirements*</b>	<b>66</b>
Required Substitutions	
Area One	18
MTH 229, 230	
Area Two	8
Area Three	8
Area Four	12
Area Five	16
PHY 240/200, 242/202, 244/204	
Area Six	4
College Component: EGR 190**	

\*Courses taken to satisfy GE requirements may not be counted toward the major.

\*\*For incoming freshmen only. Students with more than 45 credit hours are required to take ISE 210.

<b>II. Engineering Requirements</b>	<b>92</b>
Core Engineering Requirements	
BME 428 (Course is 3 CR, previously listed incorrectly)	3
EGR 101	5
EE 301/302, 321	9

ME 212, 213, 315	12
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Major Courses	
ISE 195, 301, 302, 406, 407, 451, 470, 471, 477, 499	38
ISE 472, 473, 474, 481, 482, 483, 484	25

<b>III. Related Course Requirements</b>	<b>24</b>
CHM 121	5
CEG 220	4
MTH 231, 232, 235	15

<b>IV. Technical Communications Requirement</b>	<b>3</b>
EGR 335	3

<b>V. Elective/Concentration Requirement</b>	<b>8</b>
ISE Honors Undergraduate Thesis Track:	8
ISE 499-9 and ISE 499-10	
Human Integrated Systems Track:	8
Select two: ISE 431, ISE 465, and PSY 110	
Operations Management Track:	8
MS 307 and MS 320	
Minor in Operations Management available. See COBA	
Ergonomic Systems Track:	8
BME 420 and ISE 480	
Computer Science Track:	8
Select two: ISE 465, CS 240 and CS 241	
Minor in CS for Engineers & Scientist available. See CS Dept for details.	
(Computer Systems Track Removed)	

Materials Science and Engineering Track:	8
Select two: ME 220, ME 370, ME 371 and ME 472	

<b>I. General Education Requirements*</b>	<b>66</b>
Required Substitutions	
Area One	18
MTH 229, 230	
Area Two	8
Area Three	8
Area Four	4
Additional Courses from areas II, III and IV	8
Area Five (PHY 240/200, 242/202, 244/204)	16
Area Six	4
College Component: EGR 190**	

\*Courses taken to satisfy GE requirements may not be counted toward the major.

\*\*For incoming freshmen only. Students with more than 45 credit hours are required to take ISE 210.

<b>II. Engineering Requirements</b>	<b>94</b>
Core Engineering Requirements	
BME 428	5
EGR 101	5
EE 301/302, 321	9

ME 212, 213, 315	12
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Major Courses	
ISE 195, 301, 302, 406, 407, 451, 470, 471, 477, 478	38
ISE 472, 473, 474, 481, 482, 483, 484	25

<b>III. Related Course Requirements</b>	<b>24</b>
CHM 121	5
CEG 220	4
MTH 231, 232, 235	15

<b>IV. Technical Communications Requirement</b>	<b>3</b>
EGR 335	3

<b>V. Elective/Concentration Requirement</b>	<b>8</b>
ISE Honors Undergraduate Thesis Track:	8
ISE 499-9 and ISE 499-10	
Human Integrated Systems Track:	8
Select two: ISE 431, ISE 465, and PSY 110	
Operations Management Track:	8
MS 307 and MS 320	
Minor in Operations Management available. See COBA	
Ergonomic Systems Track:	8
BME 420 and ISE 480	
Computer Science Track:	8
Select two: ISE 465, CS 240 and CS 241	
Minor in CS for Engineers & Scientist available. See CS Dept for details.	

Materials Science and Engineering Track:	8
Select two: ME 220, ME 370, ME 371 and ME 472	

Minor in Materials Science and Egr available. See ME Dept for details.

Minor in Materials Science and Egr available. See ME Dept for details.

**Total**

**193**

**Total**

**195**

revised 10/24/2005

**9/12/2006**



**BS in Electrical Engineering Degree Requirements**

**BS in Electrical Engineering Degree Requirements  
Proposed Wireless Engineering Option (WiE)**

<b>General Education Requirements</b>	<b>66</b>	<b>General Education Requirements</b>	<b>66</b>
Required Substitutions:		Required Substitutions:	
Area One	18	Area One	18
ENG 101, 102 MTH 229, 230		ENG 101, 102 MTH 229, 230	
Area Two	8	Area Two	8
Area Three	8	Area Three	8
Area Four	12	Area Four	12
Area Five	16	Area Five	16
PHY 240/200, 242/202, 244/204		PHY 240/200, 242/202, 244/204	
Area Six	4	Area Six	4
EGR 190		EGR 190	
<b>Related Course Requirements</b>	<b>26</b>	<b>Related Course Requirements</b>	<b>27</b>
MTH 231, 232	10	MTH 231, 232	10
MTH 235	5	MTH 235	5
STT 363 or ISE 301	3-4	EE 326	4
CHM 121	5	CHM 121	5
EGR 335	3	EGR 335	3
<b>Engineering Requirements</b>	<b>73</b>	<b>Engineering Requirements</b>	<b>76</b>
EGR 101	5	EGR 101	5
ME 212, 213	8		
CEG 220, CEG 221 or ME 315	8	CEG 220, CEG 221	8
CEG 411	4	CEG 411	4
EE 140, 260, 301/302, 303/304, 321, 322, 325, 331/332, 345	36	EE 260, 301/302, 303/304, 321, 322, 331/332, 345	29
EE 413/414, 421, 431/432	12	EE 421, 431/432, 436, 437, 473/474, 476, 481, 482	30
<b>Engineering Electives</b>	<b>26</b>	<b>Engineering Electives</b>	<b>26</b>
<b>Part A: Choose one of the following design sequences</b>		<b>Part A: Choose 15 credits from the following courses</b>	
Design Sequence I: Electronic Circuits	18		
EE 444 or 449, 451, 454, 481, 482		EE 439, 478, 346, 446, 462, and CEG 404	15
Design Sequence II: Control Systems	14		
EE 415/416, 417/420, 481, 482			
Design Sequence III: Communication/Signal Processing	14		
EE 435, 436, 481, 482			
Design Sequence IV: Electromagnetics	14		
EE 346, 446, 481, 482			
Design Sequence V: Industrial Design Projects	12		
EE 499 taken for 3 quarters			
<b>Part B: The remainder of the 24 credits of engineering electives are to be chosen from 300-400 level engineering classes. Of these 24 total hours of engineering electives, 20 must have an EE prefix.</b>		<b>Part B: The remainder of the 11 credits of engineering electives are to be chosen from 300-400 level engineering classes.</b>	11
Technical Electives	7	Technical Electives	3
Courses must be chosen from an approved list.		Courses must be chosen from an approved list.	
<b>Total</b>	<b>198</b>	<b>Total</b>	<b>198</b>

**BS in Electrical Engineering Degree Requirements**

**BS in Electrical Engineering Degree Requirements  
Proposed Sensor Engineering Option (SnE)**

<b>General Education Requirements</b>	<b>66</b>	<b>General Education Requirements</b>	<b>66</b>
Required Substitutions:		Required Substitutions:	
Area One	18	Area One	18
ENG 101, 102 MTH 229, 230		ENG 101, 102 MTH 229, 230	
Area Two	8	Area Two	8
Area Three	8	Area Three	8
Area Four	12	Area Four	12
Area Five	16	Area Five	16
PHY 240/200, 242/202, 244/204		PHY 240/200, 242/202, 244/204	
Area Six	4	Area Six	4
EGR 190		EGR 190	
<b>Related Course Requirements</b>	<b>26</b>	<b>Related Course Requirements</b>	<b>27</b>
MTH 231, 232	10	MTH 231, 232	10
MTH 235	5	MTH 235	5
STT 363 or ISE 301	3-4	EE 326	4
CHM 121	5	CHM 121	5
EGR 335	3	EGR 335	3
<b>Engineering Requirements</b>	<b>73</b>	<b>Engineering Requirements</b>	<b>76</b>
EGR 101	5	EGR 101	5
ME 212, 213	8		
CEG 220, CEG 221 or ME 315	8	CEG 220, CEG 221	8
CEG 411	4	EP 320	4
EE 140, 260, 301/302, 303/304, 321, 322, 325, 331/332, 345	36	EE 260, 301/302, 303/304, 321, 322, 331/332, 345	29
EE 413/414, 421, 431/432	12	EE 421, 431/432, 436, 437, 470, 475, 481, 482	30
<b>Engineering Electives</b>	<b>26</b>	<b>Engineering Electives</b>	<b>26</b>
<b>Part A: Choose one of the following design sequences</b>		<b>Part A: Choose 16 credits from the following courses</b>	
Design Sequence I: Electronic Circuits	18		
EE 444 or 449, 451, 454, 481, 482		EE 413/414, 410, 435, 444, 459, 462, 473/474, and CEG 411	16
Design Sequence II: Control Systems	14		
EE 415/416, 417/420, 481, 482			
Design Sequence III: Communication/Signal Processing	14		
EE 435, 436, 481, 482			
Design Sequence IV: Electromagnetics	14		
EE 346, 446, 481, 482			
Design Sequence V: Industrial Design Projects	12		
EE 499 taken for 3 quarters			
<b>Part B: The remainder of the 24 credits of engineering electives are to be chosen from 300-400 level engineering classes. Of these 24 total hours of engineering electives, 20 must have an EE prefix.</b>		<b>Part B: The remainder of the 10 credits of engineering electives are to be chosen from 300-400 level engineering classes.</b>	10
Technical Electives	7	Technical Electives	3
Courses must be chosen from an approved list.		Courses must be chosen from an approved list.	
<b>Total</b>	<b>198</b>	<b>Total</b>	<b>198</b>

## Athletic Training Program

Effective ????

OLD PROGRAM OF STUDY				NEW PROGRAM OF STUDY					
Dept	Num	CrHr	Course Title	Dept	Num	CrHr	Course Title	Description of Changes	Pre-Requisite
ATR	261	4.0	Basic Principles of Athletic Training:	ATR	261	4.0	Basic Principles of Athletic Training:	No Change	
ATR	262	3.0	Athletic Emergency Care	ATR	262	3.0	Athletic Emergency Care	No Change	
ATR	303	3.0	Therapeutic Exercise in Athletic Training	ATR	303	3.0	Therapeutic Exercise in Athletic Training	No Change	
ATR	360	3.0	Therapeutic Modalities in Athletic Training	ATR	360	3.0	Therapeutic Modalities in Athletic Training	No Change	
ATR	361	4.0	Assessment of Athletic Injuries	ATR	361	4.0	Assessment of Athletic Injuries	No Change	
ATR	460	4.0	Advanced Athletic Training	ATR	460	4.0	Advanced Athletic Training	No Change	
ATR	461	4.0	Organization & Administration of Athletic Training Programs	ATR	461	4.0	Organization & Administration of Athletic Training Programs	No Change	
ATR	284	3.0	Basic Skills in Athletic Training	ATR	284	3.0	Basic Skills in Athletic Training	No Change	
ATR	285	3.0	Rehabilitation Skills	ATR	285	3.0	Rehabilitation Skills	No Change	
ATR	286	3.0	Emergency Management Skills	ATR	286	3.0	Emergency Management Skills	No Change	
ATR	384	3.0	Lower Body Assessment Skills	ATR	302	3.0	Strength and Conditioning Concepts and Skills	New Course	
ATR	385	3.0	Upper Body Assessment Skills	ATR	384	3.0	Lower Body Assessment Skills	No Change	
ATR	386	3.0	Therapeutic Modalities Skills	ATR	385	3.0	Upper Body Assessment Skills	No Change	
ATR	484	3.0	Clinical & Surgical Rotations	ATR	386	3.0	Therapeutic Modalities Skills	No Change	
ATR	485	3.0	Advanced Rehabilitation Skills	ATR	484	3.0	Clinical & Surgical Rotations	No Change	
ATR	486	3.0	Medical Conditions in Athletic Training	ATR	485	3.0	Advanced Rehabilitation Skills	No Change	
ATR	487	12.0	Athletic Training Internship	ATR	486	3.0	Medical Conditions in Athletic Training	No Change	
				ATR	487	12.0	Athletic Training Internship	No Change	
		<b>64.0</b>	<b>Total ATR Hours</b>	ATR	482	3.0	Pharmacology for Athletic Trainers	New Course	
						<b>70</b>	<b>Total ATR Hours</b>		
HPR	200	2.0	Teaching Soccer						
HPR	200	2.0	Teaching Softball						
HPR	200	2.0	Teaching Volleyball						
HPR	200	2.0	Teaching Exercise and Health Related Fitness						
HPR	200	2.0	Teaching Dance and Rhythms						
HPR	200	2.0	Teaching Basketball						
HPR	200	2.0	Teaching Lifelong Leisure						
HPR	200	2.0	Teaching Tennis						
HPR	211	4.0	Motor Development	HPR	243	4.0	Motor Development	Modification: Number Change from 211 o 243	
HPR	212	4.0	Adapted Physical Activity	HPR	212	4.0	Adapted Physical Activity	No Change	
HPR	353	4.0	Kinesiology	HPR	353	4.0	Kinesiology	No Change	
HPR	354	4.0	Psychology of Sport						
HPR	355	4.0	Applied Exercise Physiology	HPR	355	4.0	Applied Exercise Physiology	No Change	
HPR	362	3.0	Nutrition for Fitness and Sport	HPR	362	3.0	Nutrition for Fitness and Sport	No Change	
HPR	481	4.0	Research, Measurement and Evaluation	HPR	245	1.0	Checkpoint #1	New Course	
				HPR	345	1.0	Checkpoint #2	New Course	
				HPR	445	1.0	Checkpoint #3	New Course	
		<b>43.0</b>	<b>Total HPR Hours</b>			<b>22.0</b>	<b>Total HPR Hours</b>		

## Athletic Training Program

Effective ????

OLD PROGRAM OF STUDY				NEW PROGRAM OF STUDY					
Dept	Num	CrHr	Course Title	Dept	Num	CrHr	Course Title	Description of Changes	Pre-Requisite
HED	230	4.0	Personal health	HED	230	4.0	Personal Health	No Change	
HED	430	4.0	School and Community Health Services	HED	430	4.0	Health Program Planning	Title Change	
HED	431	4.0	Human Sexuality for Educators	HED	333	4.0	Human Sexuality	Modification: Title Change; Number Change from 431 to 333	
HED	432	4.0	Death, Loss and Grief						
				HED	231	4.0	Community Health	New Course	
				HED	334	4.0	Health Behavior	New Course	
		<b>16.0</b>	<b>Total HED Hours</b>			<b>20.0</b>	<b>Total HED Hours</b>		
			General Education Requirements				General Education Requirements		
Area	1	12.0	Communication & Mathematical Skills	Area	1	12.0	Communication & Mathematical Skills		
ENG	101	4.0	English Composition I	ENG	101	4.0	English Composition I		
ENG	102	4.0	English Composition II	ENG	102	4.0	English Composition II		
STT	160	4.0	Statistical Concepts	STT	160	4.0	Statistical Concepts	Newly defined course for Area 1	
Area	II	8.0	Cultural - Social Foundations	Area	II	8.0	Cultural - Social Foundations		
Area	III	8.0	Human Behavior	Area	III	8.0	Human Behavior		
Psy	105	4.0	The Science of Behavior	Psy	105	4.0	The Science of Behavior		
Area	IV	4.0	Human Expression	Area	IV	4.0	Human Expression		
		8.0	Add'l courses from areas II, III, and IV			8.0	Add'l courses from areas II, III, and IV		
Area	V	12.0	Natural Sciences	Area	V	12.0	Natural Sciences		
HPR	250	4.0	Anatomy and Physiology I	HPR	250	4.0	Anatomy and Physiology I		
HPR	251	4.0	Anatomy and Physiology II	HPR	251	4.0	Anatomy and Physiology II		
Bio	107	4.0	Introductory Biology: Disease	Bio	107	4.0	Introductory Biology: Disease		
Area	VI	4.0	College Component	Area	VI	4.0	College Component		
				RHB	210	4.0	Introduction to Alcohol and Drugs		
		<b>56.0</b>	<b>Total Gen Education Requirements</b>			<b>56.0</b>	<b>Total Gen Education Requirements</b>		

## Athletic Training Program

Effective ????

OLD PROGRAM OF STUDY				NEW PROGRAM OF STUDY					
Dept	Num	CrHr	Course Title	Dept	Num	CrHr	Course Title	Description of Changes	Pre-Requisite
			Other Required Courses				Other Required Courses		
COM	101	3.0	Communication						
RHB	305	3.0	Substance Abuse						
ANT	201	4.0	Anatomy I	ANT	201	4.0	Anatomy I	No Change	
ANT	202	4.0	Anatomy II	ANT	202	4.0	Anatomy II	No Change	
EDT	280	4.0	Applied Computer Technology						
				BIO	101	4.0	Medical and Scientific Terminology	new requirement	
				BIO	105	4.0	Introduction to Biology - Food	new requirement	
				BIO	111	4.0	Principles of Biology - Human Biology	new requirement	
				CHM	101	4.5	Introduction to Chemistry	new requirement	
				CHM	102	4.5	Elementary Organic Chemistry	new requirement	
				P&B	301	4.0	Human Physiology I	new requirement	
				P&B	302	4.0	Human Physiology II	new requirement	
		<b>18.0</b>	<b>Total Other Required Hours</b>			<b>37.0</b>	<b>Total Other Required Hours</b>		
	<b>197</b>	197.0	Total Old Program Requirements						
						205.0	<b>Total New Program Requirements</b>		

**COLLEGE OF EDUCATION AND HUMAN SERVICES  
MIDDLE CHILDHOOD EDUCATION  
B.S.Ed. Requirements**

Department: Teacher Education  
 Major Program: Middle Childhood Education (Change to the **SOCIAL STUDIES & LANGUAGE ARTS** Concentration)  
 Minor Program:  
 Licensure Program: B.S.Ed. In Middle Childhood does NOT lead to licensure

**CURRENT PROGRAM  
GENERAL EDUCATION**

<b>AREA I</b>	<b>Communications</b> ENG 101 ENG 102 MTH 143	4 4 4
<b>AREA II</b>	<b>Cultural-Social Foundations</b> HST 101 HST 102 CST 231	4 4 4
<b>AREA III</b>	<b>Human Behavior</b> <i>CHOOSE 2 - From different areas</i> EC 200 or EC 290 PLS 200 PSY 105 SOC 200 WMS 200	8
<b>AREA IV</b>	<b>Human Expression</b> ENG 204 Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above. Or choose one of the following: ART 214 MUS 214 MUS 290 TH 214	4 4
<b>AREA V</b>	<b>Natural Sciences</b> CHM 246 PHY 246 BIO 345	4.5 4.5 4.5
<b>AREA VI</b>	<b>College Component</b> ED 210	4
<b>General Education Total Hours</b>		<b>57.5</b>

**PROPOSED PROGRAM  
GENERAL EDUCATION**

<b>AREA I</b>	<b>Communications</b> ENG 101 ENG 102 MTH 143	4 4 4
<b>AREA II</b>	<b>Cultural-Social Foundations</b> HST 101 HST 102 CST 231	4 4 4
<b>AREA III</b>	<b>Human Behavior</b>  <b>EC 200</b>  PSY 105 SOC 200	4  4 4
<b>AREA IV</b>	<b>Human Expression</b> ENG 204 Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above. Or choose one of the following: ART 214 MUS 214 MUS 290 TH 214	4 4
<b>AREA V</b>	<b>Natural Sciences</b> CHM 246 PHY 246 BIO 345	4.5 4.5 4.5
<b>AREA VI</b>	<b>College Component</b> ED 210	4
<b>General Education Total Hours</b>		<b>61.5</b>

<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 103	3
COM 152	3
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	3
HST 212	3
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS (CHOOSE 2)</b>	
<b>ENGLISH/LANGUAGE ARTS</b>	
COM 365	4
<i>CHOOSE 1</i> ENG 483 or 485	4
ENG 205	4
ENG 346	4
<i>CHOOSE 1</i> ENG 343, 345, or 480	4
<i>CHOOSE 2</i> ENG 355, 356, or 357	8
<b>English/Language Arts Total Hours</b>	<b>28</b>
<b>SOCIAL STUDIES</b>	
<i>CHOOSE 1</i> RST 261 or 262	4
<i>CHOOSE 1</i> HST 214 or 215	3
HST 217	4
<i>CHOOSE 1</i> HST 445, 455, or 465	4
<i>CHOOSE 1</i> HST 470, 475, 480, or	4
<i>CHOOSE 1</i> PLS 212, 222, 322, 331,	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
<i>CHOOSE 1</i> GEO 325, 370, 375	4
<b>Social Studies Total Hours</b>	<b>31</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Science Total Hours</b>	<b>16</b>
<b><i>B.S.Ed. TOTAL HOURS</i></b>	<b><i>192-202</i></b>

<b>CURRICULUM CONTENT</b>	
AED 431	4
<b>COM 152</b>	<b>4</b>
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
<b>GEO 202</b>	<b>4</b>
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
<b>HST 211</b>	<b>4</b>
<b>HST 212</b>	<b>4</b>
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS (CHOOSE 2)</b>	
<b>ENGLISH/LANGUAGE ARTS</b>	
COM 365	4
<b>ENG 488</b>	<b>4</b>
ENG 205	4
ENG 346	4
<b>ENG 345</b>	<b>4</b>
<i>CHOOSE 2</i> ENG 355, 356, or 357	8
<b>English/Language Arts Total Hours</b>	<b>28</b>
<b>SOCIAL STUDIES</b>	
<b>RST - any RST</b>	<b>4</b>
<b>HST 221 or 215</b>	<b>4</b>
HST 217	4
<i>CHOOSE 1</i> HST 470, 475, 480, or	4
<b>PLS 200</b>	<b>4</b>
<b>PLS 212 or 222</b>	<b>4</b>
<b>GEO 249</b>	<b>4</b>
<b>Social Studies Total Hours</b>	<b>28</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Science Total Hours</b>	<b>16</b>
<b><i>B.S.Ed. TOTAL HOURS</i></b>	<b><i>203</i></b>

**COLLEGE OF EDUCATION AND HUMAN SERVICES  
MIDDLE CHILDHOOD EDUCATION  
B.S.Ed. Requirements**

Department: Teacher Education  
 Major Program: Middle Childhood Education (Change to the **LANGUAGE ARTS & MATH** Concentrations)  
 Minor Program:  
 Licensure Program: B.S.Ed. In Middle Childhood does NOT lead to licensure

<b>CURRENT PROGRAM</b>		
<b>GENERAL EDUCATION</b>		
<b>AREA I</b>	<b>Communications</b>	
	ENG 101	4
	ENG 102	4
	MTH 143	4
<b>AREA II</b>	<b>Cultural-Social Foundations</b>	
	HST 101	4
	HST 102	4
	CST 231	4
<b>AREA III</b>	<b>Human Behavior</b>	
	<i>CHOOSE 2 - From different areas</i>	8
	EC 200 or EC 290	
	PLS 200	
	PSY 105	
	SOC 200	
	WMS 200	
<b>AREA IV</b>	<b>Human Expression</b>	
	ENG 204	4
	Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above.	
	Or choose one of the following:	4
	ART 214	
	MUS 214	
	MUS 290	
	TH 214	
<b>AREA V</b>	<b>Natural Sciences</b>	
	CHM 246	4.5
	PHY 246	4.5
	BIO 345	4.5
<b>AREA VI</b>	<b>College Component</b>	
	ED 210	4
<b>General Education Total Hours</b>		<b>57.5</b>

<b>PROPOSED PROGRAM</b>		
<b>GENERAL EDUCATION</b>		
<b>AREA I</b>	<b>Communications</b>	
	ENG 101	4
	ENG 102	4
	MTH 143	4
<b>AREA II</b>	<b>Cultural-Social Foundations</b>	
	HST 101	4
	HST 102	4
	CST 231 or 241	4
<b>AREA III</b>	<b>Human Behavior</b>	
	<i>CHOOSE 2 - From different areas</i>	8
	EC 200 or EC 290	
	PLS 200	
	PSY 105	
	SOC 200	
	WMS 200	
<b>AREA IV</b>	<b>Human Expression</b>	
	ENG 204	4
	Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above.	
	Or choose one of the following:	4
	ART 214	
	MUS 214	
	MUS 290	
	TH 214	
<b>AREA V</b>	<b>Natural Sciences</b>	
	CHM 246	4.5
	PHY 246	4.5
	BIO 345	4.5
<b>AREA VI</b>	<b>College Component</b>	
	ED 210	4
<b>General Education Total Hours</b>		<b>57.5</b>



<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 103	3
COM 152	3
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	3
HST 212	3
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS</b>	
<b>ENGLISH/LANGUAGE ARTS</b>	
COM 365	4
<i>CHOOSE 1</i> ENG 483 or 485	4
ENG 205	4
ENG 346	4
<i>CHOOSE 1</i> ENG 343, 345, or 480	4
<i>CHOOSE 2</i> ENG 355, 356, or 357	8
<b>English/Language Arts Total Hours</b>	<b>28</b>
<b>MATHEMATICS</b>	
*Prerequisite MTH128 or Level 5 on Math Placement Test	
MTH 343*	4
MTH 344	4
MTH 345	4
MTH 348	4
MTH 446	4
STT 342*	4
<b>Mathematics Total Hours</b>	<b>24</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Pre-Professional Total Hours</b>	<b>16</b>
<b>B.S.Ed. TOTAL HOURS</b>	<b>192-202</b>

<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 152	4
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	4
HST 212	4
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS</b>	
<b>ENGLISH/LANGUAGE ARTS</b>	
COM 365	4
ENG 488	4
ENG 205	4
ENG 346	4
ENG 345	4
<i>CHOOSE 2</i> ENG 355, 356, or 357	8
<b>English/Language Arts Total Hours</b>	<b>28</b>
<b>MATHEMATICS</b>	
*Prerequisite MTH128 or Level 5 on Math Placement Test	
MTH 343*	4
MTH 344	4
MTH 345	4
MTH 348	4
MTH 446	4
STT 342*	4
<b>Mathematics Total Hours</b>	<b>24</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Pre-Professional Total Hours</b>	<b>16</b>
<b>B.S.Ed. TOTAL HOURS</b>	<b>195</b>

**COLLEGE OF EDUCATION AND HUMAN SERVICES  
MIDDLE CHILDHOOD EDUCATION  
B.S.Ed. Requirements**

Department: Teacher Education  
**Major Program:** Middle Childhood Education (Change to the LANGUAGE ARTS & SCIENCE Concentra  
 Minor Program:  
 Licensure Program: B.S.Ed. In Middle Childhood does NOT lead to licensure

**CURRENT PROGRAM  
GENERAL EDUCATION**

<b>AREA I</b>	<b>Communications</b> ENG 101 ENG 102 MTH 143	4 4 4
<b>AREA II</b>	<b>Cultural-Social Foundations</b> HST 101 HST 102 CST 231	4 4 4
<b>AREA III</b>	<b>Human Behavior</b> <i>CHOOSE 2 - From different areas</i> EC 200 or EC 290 PLS 200 PSY 105 SOC 200 WMS 200	8
<b>AREA IV</b>	<b>Human Expression</b> ENG 204  Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above. Or choose one of the following: ART 214 MUS 214 MUS 290 TH 214	4   4
<b>AREA V</b>	<b>Natural Sciences</b> CHM 246 PHY 246 BIO 345	4.5 4.5 4.5
<b>AREA VI</b>	<b>College Component</b> ED 210	4
<b>General Education Total Hours</b>		<b>57.5</b>

**PROPOSED PROGRAM  
GENERAL EDUCATION**

<b>AREA I</b>	<b>Communications</b> ENG 101 ENG 102 MTH 143	4 4 4
<b>AREA II</b>	<b>Cultural-Social Foundations</b> HST 101 HST 102 CST 231 or 241	4 4 4
<b>AREA III</b>	<b>Human Behavior</b> <i>CHOOSE 2 - From different areas</i> EC 200 or EC 290 PLS 200 PSY 105 SOC 200 WMS 200	8
<b>AREA IV</b>	<b>Human Expression</b> ENG 204  Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above. Or choose one of the following: ART 214 MUS 214 MUS 290 TH 214	4   4
<b>AREA V</b>	<b>Natural Sciences</b> CHM 246 PHY 246 BIO 345	4.5 4.5 4.5
<b>AREA VI</b>	<b>College Component</b> ED 210	4
<b>General Education Total Hours</b>		<b>57.5</b>

<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 103	3
COM 152	3
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	3
HST 212	3
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS</b>	
<b>ENGLISH/LANGUAGE ARTS</b>	
COM 365	4
<i>CHOOSE 1</i> ENG 483 or 485	4
ENG 205	4
ENG 346	4
<i>CHOOSE 1</i> ENG 343, 345, or 480	4
<i>CHOOSE 2</i> ENG 355, 356, or 357	8
<b>English/Language Arts Total Hours</b>	<b>28</b>
<b>SCIENCE</b>	
BIO 346	4.5
CHM 345	4.5
GL 346	4.5
PHY 346	4.5
SM 445	3
SM 446	3
<b>Science Total Hours</b>	<b>24</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Pre-Professional Total Hours</b>	<b>16</b>
<b><i>B.S.Ed. TOTAL HOURS</i></b>	<b><i>192-202</i></b>

<b>CURRICULUM CONTENT</b>	
AED 431	4
<b>COM 152</b>	<b>4</b>
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
<b>HST 211</b>	<b>4</b>
<b>HST 212</b>	<b>4</b>
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS</b>	
<b>ENGLISH/LANGUAGE ARTS</b>	
COM 365	4
<b>ENG 488</b>	<b>4</b>
ENG 205	4
ENG 346	4
<b>ENG 345</b>	<b>4</b>
<i>CHOOSE 2</i> ENG 355, 356, or 357	8
<b>English/Language Arts Total Hours</b>	<b>28</b>
<b>SCIENCE</b>	
BIO 346	4.5
CHM 345	4.5
GL 346	4.5
PHY 346	4.5
SM 445	3
SM 446	3
<b>Science Total Hours</b>	<b>24</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Science Total</b>	<b>16</b>
<b><i>B.S.Ed. TOTAL HOURS</i></b>	<b><i>195</i></b>

**COLLEGE OF EDUCATION AND HUMAN SERVICES  
MIDDLE CHILDHOOD EDUCATION  
B.S.Ed. Requirements**

Department: Teacher Education  
 Major Program: Middle Childhood Education (Change to the **SOCIAL STUDIES & MATH** Concentrations)  
 Minor Program:  
 Licensure Program: B.S.Ed. In Middle Childhood does NOT lead to licensure

<b>CURRENT PROGRAM</b>		
<b>GENERAL EDUCATION</b>		
<b>AREA I</b>	<b>Communications</b> ENG 101 ENG 102 MTH 143	4 4 4
<b>AREA II</b>	<b>Cultural-Social Foundations</b> HST 101 HST 102 CST 231	4 4 4
<b>AREA III</b>	<b>Human Behavior</b> <i>CHOOSE 2 - From different areas</i> EC 200 or EC 290 PLS 200 PSY 105 SOC 200 WMS 200	8
<b>AREA IV</b>	<b>Human Expression</b> ENG 204  Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above. Or choose one of the following: ART 214 MUS 214 MUS 290 TH 214	4  4
<b>AREA V</b>	<b>Natural Sciences</b> CHM 246 PHY 246 BIO 345	4.5 4.5 4.5
<b>AREA VI</b>	<b>College Component</b> ED 210	4
General Education Total Hours		57.5

<b>PROPOSED PROGRAM</b>		
<b>GENERAL EDUCATION</b>		
<b>AREA I</b>	<b>Communications</b> ENG 101 ENG 102 MTH 143	4 4 4
<b>AREA II</b>	<b>Cultural-Social Foundations</b> HST 101 HST 102 CST 231 or 241	4 4 4
<b>AREA III</b>	<b>Human Behavior</b>  EC 200  PSY 105 SOC 200  	4  4 4
<b>AREA IV</b>	<b>Human Expression</b> ENG 204  Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above. Or choose one of the following: ART 214 MUS 214 MUS 290 TH 214	4  4
<b>AREA V</b>	<b>Natural Sciences</b> CHM 246 PHY 246 BIO 345	4.5 4.5 4.5
<b>AREA VI</b>	<b>College Component</b> ED 210	4
General Education Total Hours		61.5

<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 103	3
COM 152	3
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	3
HST 212	3
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>

<b>CONCENTRATIONS</b>	
<b>MATHEMATICS</b>	
*Prerequisite MTH128 or Level 5 on Math Placement Test	
MTH 343*	4
MTH 344	4
MTH 345	4
MTH 348	4
MTH 446	4
STT 342*	4
<b>Mathematics Total Hours</b>	<b>24</b>

<b>SOCIAL STUDIES</b>	
<i>CHOOSE 1</i> RST 261 or 262	4
<i>CHOOSE 1</i> HST 214 or 215	3
HST 217	4
<i>CHOOSE 1</i> HST 445, 455, or 465	4
<i>CHOOSE 1</i> HST 470, 475, 480, or 485	4
<i>CHOOSE 1</i> PLS 212, 222, 322, 331, 340, 351, or 371	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
<i>CHOOSE 1</i> GEO 325, 370, 375	4
<b>Social Studies Total Hours</b>	<b>31</b>

<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Pre-Professional Total Hours</b>	<b>16</b>

**B.S.Ed. TOTAL HOURS 192-202**

<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 152	4
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
GEO 202	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	4
HST 212	4
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>

<b>CONCENTRATIONS</b>	
<b>MATHEMATICS</b>	
*Prerequisite MTH128 or Level 5 on Math Placement Test	
MTH 343*	4
MTH 344	4
MTH 345	4
MTH 348	4
MTH 446	4
STT 342*	4
<b>Mathematics Total Hours</b>	<b>24</b>

<b>SOCIAL STUDIES</b>	
RST - any RST	4
HST 221 or 215	4
HST 217	4
<i>CHOOSE 1</i> HST 470, 475, 480, or 485	4
PLS 200	4
PLS 212 or 222	4
GEO 249	4
<b>Social Studies Total Hours</b>	<b>28</b>

<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Pre-Professional Total Hours</b>	<b>16</b>

**B.S.Ed. TOTAL HOURS 199**

**COLLEGE OF EDUCATION AND HUMAN SERVICES  
MIDDLE CHILDHOOD EDUCATION  
B.S.Ed. Requirements**

Department: Teacher Education  
 Major Program: Middle Childhood Education (Change to the **SOCIAL STUDIES & SCIENCE** Concentrations)  
 Minor Program:  
 Licensure Program: B.S.Ed. In Middle Childhood does NOT lead to licensure

<b>CURRENT PROGRAM</b>		
<b>GENERAL EDUCATION</b>		
<b>AREA I</b>	<b>Communications</b>	
	ENG 101	4
	ENG 102	4
	MTH 143	4
<b>AREA II</b>	<b>Cultural-Social Foundations</b>	
	HST 101	4
	HST 102	4
	CST 231	4
<b>AREA III</b>	<b>Human Behavior</b>	
	<i>CHOOSE 2 - From different areas</i>	8
	EC 200 or EC 290	
	PLS 200	
	PSY 105	
	SOC 200	
	WMS 200	
<b>AREA IV</b>	<b>Human Expression</b>	
	ENG 204	4
	Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above.	
	Or choose one of the following:	4
	ART 214	
	MUS 214	
	MUS 290	
	TH 214	
<b>AREA V</b>	<b>Natural Sciences</b>	
	CHM 246	4.5
	PHY 246	4.5
	BIO 345	4.5
<b>AREA VI</b>	<b>College Component</b>	
	ED 210	4
<b>General Education Total Hours</b>		<b>57.5</b>

<b>PROPOSED PROGRAM</b>		
<b>GENERAL EDUCATION</b>		
<b>AREA I</b>	<b>Communications</b>	
	ENG 101	4
	ENG 102	4
	MTH 143	4
<b>AREA II</b>	<b>Cultural-Social Foundations</b>	
	HST 101	4
	HST 102	4
	CST 231 or 241	4
<b>AREA III</b>	<b>Human Behavior</b>	
		4
	<b>EC 200</b>	
	PSY 105	4
	SOC 200	4
<b>AREA IV</b>	<b>Human Expression</b>	
	ENG 204	4
	Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above.	
	Or choose one of the following:	4
	ART 214	
	MUS 214	
	MUS 290	
	TH 214	
<b>AREA V</b>	<b>Natural Sciences</b>	
	CHM 246	4.5
	PHY 246	4.5
	BIO 345	4.5
<b>AREA VI</b>	<b>College Component</b>	
	ED 210	4
<b>General Education Total Hours</b>		<b>61.5</b>

<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 103	3
COM 152	3
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
CHOOSE 1 GEO 201, 202, or 203	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	3
HST 212	3
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS</b>	
<b>SOCIAL STUDIES</b>	
CHOOSE 1 RST 261 or 262	4
CHOOSE 1 HST 214 or 215	3
HST 217	4
CHOOSE 1 HST 445, 455, or 465	4
CHOOSE 1 HST 470, 475, 480, or 485	4
CHOOSE 1 PLS 212, 222, 322, 331, 340, 351, or 371	4
CHOOSE 1 GEO 201, 202, or 203	4
CHOOSE 1 GEO 325, 370, 375	4
<b>Social Studies Total Hours</b>	<b>31</b>
<b>SCIENCE</b>	
BIO 346	4.5
CHM 345	4.5
GL 346	4.5
PHY 346	4.5
SM 445	3
SM 446	3
<b>Science Total Hours</b>	<b>24</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Pre-Professional Total Hours</b>	<b>16</b>
<b>B.S.Ed. TOTAL HOURS</b>	<b>192-202</b>

<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 152	4
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
GEO 202	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	4
HST 212	4
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS</b>	
<b>SOCIAL STUDIES</b>	
RST - any RST	4
HST 221 or 215	4
HST 217	4
CHOOSE 1 HST 470, 475, 480, or 485	4
PLS 200	4
PLS 212 or 222	4
GEO 249	4
<b>Social Studies Total Hours</b>	<b>28</b>
<b>SCIENCE</b>	
BIO 346	4.5
CHM 345	4.5
GL 346	4.5
PHY 346	4.5
SM 445	3
SM 446	3
<b>Science Total Hours</b>	<b>24</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Pre-Professional Total Hours</b>	<b>16</b>
<b>B.S.Ed. TOTAL HOURS</b>	<b>199</b>

**COLLEGE OF EDUCATION AND HUMAN SERVICES  
MIDDLE CHILDHOOD EDUCATION  
B.S.Ed. Requirements**

Department: Teacher Education  
 Major Program: Middle Childhood Education (Change to the **MATH & SCIENCE** Concentrations)  
 Minor Program:  
 Licensure Program: B.S.Ed. In Middle Childhood does NOT lead to licensure

<b>CURRENT PROGRAM</b>		
<b>GENERAL EDUCATION</b>		
<b>AREA I</b>	<b>Communications</b>	
	ENG 101	4
	ENG 102	4
	MTH 143	4
<b>AREA II</b>	<b>Cultural-Social Foundations</b>	
	HST 101	4
	HST 102	4
	CST 231	4
<b>AREA III</b>	<b>Human Behavior</b>	
	<i>CHOOSE 2 - From different areas</i>	8
	EC 200 or EC 290	
	PLS 200	
	PSY 105	
	SOC 200	
	WMS 200	
<b>AREA IV</b>	<b>Human Expression</b>	
	ENG 204	4
	Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above.	
	Or choose one of the following:	4
	ART 214	
	MUS 214	
	MUS 290	
	TH 214	
<b>AREA V</b>	<b>Natural Sciences</b>	
	CHM 246	4.5
	PHY 246	4.5
	BIO 345	4.5
<b>AREA VI</b>	<b>College Component</b>	
	ED 210	4
General Education Total Hours		57.5

<b>PROPOSED PROGRAM</b>		
<b>GENERAL EDUCATION</b>		
<b>AREA I</b>	<b>Communications</b>	
	ENG 101	4
	ENG 102	4
	MTH 143	4
<b>AREA II</b>	<b>Cultural-Social Foundations</b>	
	HST 101	4
	HST 102	4
	CST 231 or 241	4
<b>AREA III</b>	<b>Human Behavior</b>	
	<i>CHOOSE 2 - From different areas</i>	8
	EC 200 or EC 290	
	PLS 200	
	PSY 105	
	SOC 200	
	WMS 200	
<b>AREA IV</b>	<b>Human Expression</b>	
	ENG 204	4
	Choose 1 additional course not previously taken from areas III, or IV. The course must come from a different grouping than those selected above.	
	Or choose one of the following:	4
	ART 214	
	MUS 214	
	MUS 290	
	TH 214	
<b>AREA V</b>	<b>Natural Sciences</b>	
	CHM 246	4.5
	PHY 246	4.5
	BIO 345	4.5
<b>AREA VI</b>	<b>College Component</b>	
	ED 210	4
General Education Total Hours		57.5



<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 103	3
COM 152	3
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	3
HST 212	3
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS</b>	
<b>MATHEMATICS</b>	
*Prerequisite MTH128 or Level 5 on Math Placement Test	
MTH 343*	4
MTH 344	4
MTH 345	4
MTH 348	4
MTH 446	4
STT 342*	4
<b>Mathematics Total Hours</b>	<b>24</b>
<b>SCIENCE</b>	
BIO 346	4.5
CHM 345	4.5
GL 346	4.5
PHY 346	4.5
SM 445	3
SM 446	3
<b>Science Total Hours</b>	<b>24</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Science Total</b>   <b>Pre-Professional Total Hour</b>	<b>16</b>
<b><i>B.S.Ed. TOTAL HOURS</i></b>	<b>192-202</b>

<b>CURRICULUM CONTENT</b>	
AED 431	4
COM 152	4
ED 421	3
EDT 280	4
ENG 340	4
ENG 341	4
<i>CHOOSE 1</i> GEO 201, 202, or 203	4
GL 345	4.5
HED 331	4
HPR 260	3
HPR 281	4
HST 103	4
HST 211	4
HST 212	4
MTH 243	4
MTH 244	4
MUS 365	4
SM 145	3
<b>Curriculum Content Total Hours</b>	<b>69.5</b>
<b>CONCENTRATIONS</b>	
<b>MATHEMATICS</b>	
*Prerequisite MTH128 or Level 5 on Math Placement Test	
MTH 343*	4
MTH 344	4
MTH 345	4
MTH 348	4
MTH 446	4
STT 342*	4
<b>Mathematics Total Hours</b>	<b>24</b>
<b>SCIENCE</b>	
BIO 346	4.5
CHM 345	4.5
GL 346	4.5
PHY 346	4.5
SM 445	3
SM 446	3
<b>Science Total Hours</b>	<b>24</b>
<b>PRE-PROFESSIONAL EDUCATION COURSES</b>	
ED 221	1
ED 223	1
ED 301	5
ED 303	5
EDS 333	4
<b>Pre-Professional Total Hours</b>	<b>16</b>
<b><i>B.S.Ed. TOTAL HOURS</i></b>	<b>191</b>

DATE: August 21, 2006  
TO: University Undergraduate Curriculum and Academic Policy Committee  
FROM: Susan Yeoman, Associate Director for Student Services  
SUBJECT: Integrated Sciences Program Curriculum Changes

While reviewing the Integrated Sciences program of study several updates became necessary.

Change #1: Add ED 210, Education in a Democracy to list of acceptable courses for General Education Area VI.

Change #2: Delete BIO 278, 279, 426 and 426 substitutes BIO 211, 302, 421. Add BIO 230, 231 and 421 to new curriculum

Change #3: Delete choice GL 486 or 342 or 308 due to current course offerings. Add GL 486 to new curriculum.

Change #4: Delete PHY 420 (Thermodynamics). After review of NCATE/NSTA Science Teacher Standards, determined in-depth thermodynamics is not required.

Change #5: Delete MTH 231 and STT 264. With deletion of PHY 420, MTH 231 is no longer required as a prerequisite.

Change #6: Add STT 160 to replace STT 264 to fulfill NCATE/NSTA statistics requirement.

Change #7: Total credit hours required reduced from 209 to 200 due to above changes.

**CURRENT**

**Bachelor of Science Degree – Integrated Science for Educators**

The Adolescence to Young Adult *Integrated Science* Licensure Program is based on an undergraduate Bachelor of Science degree in Integrated Science

**General Education Requirements: 40**

Required Substitutions:

Area I: MTH 229, 230 (counted in Required Supporting Courses)

Area V: BIO 111, 112, 115 (counted in Departmental Requirements)

Area VI: EH 205 or PSY 110 or SM 205

\* See back for complete GE requirements \*

**Departmental Requirements: 131**

BIO 111 \_\_\_ BIO 112 \_\_\_ BIO 115 \_\_\_ BIO 312 \_\_\_  
BIO 314 \_\_\_

#2 **BIO 278 \_\_\_ BIO 279 \_\_\_ BIO 426\*** \_\_\_  
\*Substitute **BIO 211, BIO 302 or BIO 421** 34

CHM 121 \_\_\_ CHM 122 \_\_\_ CHM 123 \_\_\_  
CHM 211/215 \_\_\_ CHM 212/216 \_\_\_  
CHM 213/217 \_\_\_ 33

GL 201 \_\_\_ GL 251/252 \_\_\_ GL 253/254 \_\_\_  
GL 255/256 \_\_\_ GL 309 \_\_\_  
#3 **GL 486 or 342 or 308 (4 cr.)** \_\_\_  
GL 410 (Oceanography) \_\_\_ 30

PHY 107/117 \_\_\_ PHY 240/200 \_\_\_ PHY 242/202 \_\_\_  
PHY 244/204 \_\_\_ PHY 260 \_\_\_ PHY 315 \_\_\_  
#4 **PHY 420 \_\_\_ PHY 446** \_\_\_ 34

**Required Supporting Courses: 23**

GEO 430 or GEO 431 \_\_\_

MTH 229 \_\_\_ MTH 230 \_\_\_

#5 **MTH 231 \_\_\_ STT 264** \_\_\_

**Phase One Professional Education Courses: 15**

ED 221 \_\_\_ ED 223 \_\_\_ ED 301 \_\_\_ ED 303 \_\_\_ EDS  
333 \_\_\_

**TOTAL 209**

**Residence Regulations** – A minimum of 45 credit hours must be earned at Wright State University. At least 15 of the last 45 credit hours must be earned at Wright State. A minimum of 30 hours of courses numbered 300 or above must be earned at Wright State.

**NEW**

**Bachelor of Science Degree – Integrated Science for Educators**

The Adolescence to Young Adult *Integrated Science* Licensure Program is based on an undergraduate Bachelor of Science degree in Integrated Science

<b>General Education Requirements</b>	<b>40</b>
Required Substitutions: Area I: MTH 229, 230 (counted in Required Supporting Courses) Area V: BIO 111, 112, 115 (counted in Departmental Requirements) Area VI: #1 <b>ED 210</b> , EH 205, PSY 110, SM 205 (select one) * See back for complete GE requirements*	
<b>Departmental Requirements:</b>	<b>126</b>
BIO 111 ___ BIO 112 ___ BIO 115 ___ #2 <b>BIO 230 ___ BIO 231</b> ___ BIO 312 ___ BIO 314 ___ <b>BIO 421</b> ___	32
CHM 121 ___ CHM 122 ___ CHM 123 ___ CHM 211/215 ___ CHM 212/216 ___ CHM 213/217 ___	33
GL 201 ___ GL 251/252 ___ GL 253/254 ___ GL 255/256 ___ GL 309 ___ GL 410 ___ #3 <b>GL 486</b> ___	30
PHY 107/117 ___ PHY 240/200 ___ PHY 242/202 ___ PHY 244/204 ___ PHY 260 ___ PHY 315 ___ PHY 446 ___ (TA <b>PHY 246 and 346)</b>	<b>31</b>
<b>Required Supporting Courses:</b>	<b>19</b>
GEO 430 or 431 ___ MTH 229 ___ MTH 230 ___ #6 <b>STT 160</b> ___	
<b>Phase One Professional Education Courses:</b>	<b>15</b>
ED 221 ___ ED 223 ___ ED 301 ___ ED 303 ___ EDS 333 ___	
<b>TOTAL</b>	<b>200</b>
<b>Residence Regulations:</b> A minimum of 45 credit hours must be earned at Wright State University. At least 15 of the last 45 credit hours must be earned at Wright State University. A minimum of 30 hours of courses numbered 300 or above must be earned at Wright State University.	

Date: Monday, June 5, 2006  
To: Chair, College of Science and Mathematics Curriculum Committee  
From: Dan Voss, Chair, Department of Mathematics and Statistics  
Subject: Proposal to change the honors policy for undergraduates majoring in the Department of Mathematics and Statistics

On the attached pages, please find a copy of the old and proposed new honors policies for undergraduates majoring in the Department of Mathematics and Statistics. We request approval of the new policy. It has already been approved by this department's faculty and by the University Honors Committee.

This is our second attempt to seek approval of this policy revision, the first having been made in my memo of April 29, 2005, to the CoSM Curriculum Committee. That attempt vanished into the void. Therefore, we would greatly appreciate the Curriculum Committee's expedited attention to this matter, and (assuming the Committee approves the revision) your prompt forwarding of the proposal to UUCAP.

Thank you.

Attachment (three additional pages)

Copies to:

Ms. Susan Yeoman, CoSM Student Services Coordinator  
Jim Vance, Chair, Undergraduate Committee, Department of Mathematics and Statistics

## **Departmental Honors in Mathematics – Current Policy**

The Honors Program in Mathematics is designed to provide a formal outlet for intellectual curiosity in the unusually gifted mathematics student. It hopes to recognize the student with mathematical ability and drive as demonstrated by his exceptional performance in mathematics courses which kindle the creative spirit. The aim of the program is to provide such a student with a special course of study which will challenge his ability and allow him more independence in his intellectual pursuits.

Any student who has completed at least two of the courses 431, 451, 457, 461, or 472 before the beginning of his senior year and has received grades of A in two of these may request permission from the department to engage in an Honors program of study under the guidance of a faculty member of the department.

The Honors course of study may consist of either of the following:

1. Completion of at least two courses of formal coursework with a grade of A or B. Such work may consist of courses numbered 701 or above, but taken for undergraduate credit, or may consist of other courses which may be specially designated for Honors students in Mathematics
2. Writing of a project report following a program of 5 to 10 hours of independent study in mathematics extending over at least two quarters. The independent study will be taken as a credit course and a grade of A or B is necessary for continuation in the Honors program.

The student who applies to the department for permission to engage in an Honors project must provide (1) a written summary of his proposed course of study and (2) evidence that one of the department's faculty members has agreed to serve as his Honors advisor for this course of study.

The chairman of the department will forward the application of the student to the chairman of the Curriculum Committee, which functions as the departmental honors committee, for approval. The committee will appoint an Honors advisor for the student who chooses Honors coursework instead of an Honors project.

If at any time the student wishes to discontinue his Honors program, the credit that he has earned is applicable as indicated in the catalog. At the end of each quarter the advisor will recommend to the Curriculum Committee whether or not the student should be permitted to continue in his course of study.

The Curriculum Committee with the advice of the student's advisor will determine if the student has satisfactorily completed his program of study and will notify the University Honors Committee.

## **Departmental Honors in Mathematics and Statistics – Proposed Policy**

The Departmental Honors Program in Mathematics and Statistics provides a formal outlet for intellectual curiosity in the unusually talented mathematics student. It provides such students with a special course of study which will challenge them and allow them more independence in their intellectual pursuits.

The Undergraduate Committee is responsible for oversight and administration of the Honors Program in Mathematics and Statistics; it may choose to delegate any portion of that responsibility to one or more individuals, either faculty or staff. One person must be designated to receive and handle Honors Program applications; that person is referred to as the Honors Advisor. By default the Chair of the Undergraduate Committee will serve as Honors Advisor.

### **ELIGIBILITY**

To qualify for entry to the Honors Program, a student must

- (i) have at least junior standing,
- (ii) have completed at least seven (7) MTH or STT classes numbered 280 and above, and have a GPA of at least 3.5 in those classes, and
- (iii) have a willing faculty sponsor.

A student who does not meet these requirements may petition the Undergraduate Committee for entry to the Honors program; such a petition must demonstrate that the student has sufficient talent and dedication to complete an Honors project.

### **PROJECT OPTIONS**

The Honors project may consist of either of the following:

- (a) An independent study project resulting in a written project report.
- (b) Completion of at least two graduate level courses with a grade of A or B.

Details for each option are given below.

### **APPLICATION**

A student must meet the eligibility requirements at the time of application. The student must write a letter of application to the Honors Advisor (who shall convey it to the Undergraduate Committee) stating a desire to undertake a Departmental Honors project, and proposing in detail how the project will be carried out. In particular the student must verify eligibility, list all classes to be taken in the project and the quarters in which they will be taken, and give the name of a willing faculty sponsor.

In the case of an independent study project, the sponsor must be the person responsible for the independent study course and grade. In the case of graduate coursework, it is suggested that the sponsor be the person teaching a graduate course that the student will take, but this is not required.

When an application is approved, the Advisor will notify the University Honors Program.

## INDEPENDENT STUDY

In option (a), the student must take at least six (6) credits of MTH 488, MTH 491, MTH 492, STT 486, and/or STT 492. The coursework must take place over at least two quarters. This coursework should result in a superior, high-quality project report of significant length. An independent study project must in the judgment of the faculty sponsor involve significant independent investigation as opposed to passive learning. As a guideline, any project which qualifies as “undergraduate research” or would make a suitable Masters thesis would certainly qualify. But a project that was simply a reading course would not generally qualify to be an Honors project.

If MTH 491, MTH 492, or STT 492 is included in the coursework counted toward the Honors project, the student must meet all the requirements of that course, while continuing work on their project. Alternatively the student may choose to complete the this graduation requirement separate from the Honors project.

## GRADUATE COURSEWORK

In option (b) the student will take at least two graduate level courses at the 700-level. In order to pursue this option the student must have completed the prerequisite undergraduate sequence (as determined by the Advisor) with an average grade of at least a B. (For example, in order to take MTH 730, the student should have taken MTH 431, 432, 433 with at least a B average.)

The Advisor will assist the student in obtaining the necessary permission to register for these courses. The student may attempt to receive graduate credit for the courses taken, but the granting of graduate credit is not required for the Honors project.

## REVISION AND EARLY TERMINATION

The student may propose revisions to the Honors project. The Advisor with the advice of the faculty sponsor will consider such revisions and approve them or not.

Ordinarily an Honors project once begun will continue until its scheduled completion. However any of the following will result in early termination of the project.

- ? A grade of C or below in a course that is part of the project.
- ? Failure to take a course as scheduled in the proposed project without advance revision.
- ? A request by the student or the faculty sponsor that the project be terminated.

## COMPLETION

At the completion of the proposed program of study, the Honors Advisor with the advice of the faculty sponsor will determine if the student has satisfactorily completed his Departmental Honors project, and if so will notify the University Honors Program.