

MINOR CURRICULAR CHANGES

2009-2010 #3

A challenge of any course appearing on this list must be received in writing by H. Thomas Hoehn in the Curriculum Administration Office (mailing address-Provost Office, 1001) within 10 working days (November 18, 2009) from the date of this notice.

DATE: November 5, 2009

		PRESENT LISTING	REQUESTED CHANGE	EFFECTIVE DATE
BZ	433	Behavioral Genetics. F. Description: Genetics of behavioral characteristics in human and infrahuman species.	S. Description: Genetics of behavioral characteristics in animals.	Summer 2010
BZ	450	Plant Ecology. F. Prerequisite: BZ 223 or BZ 325.	S. Prerequisite: LIFE 103 or BZ 120.	Fall 2010
CBE	442	Separation Processes. Prerequisite: CBE 332; one course in physical chemistry. Description: Analysis of chemical separations based on phase equilibrium thermodynamics, diffusion, and convective mass transfer; design of separations equipment.	Prerequisite: CBE 332. Description: Analysis of chemical and biological separations based on thermodynamics, diffusion, and convective mass transfer; design of separations equipment.	Fall 2010
E	403	Nature Writing. Description: American and English writers who interpret nature and the landscape; critical analysis and application of their techniques to current interpretive problems.	Writing the Environment. Description: Creative writing in conjunction with study of recent American literature on nature and landscape.	Fall 2010
EDHE	590A-I	Workshop-Student Personnel. A) Admissions. F. B) College union administration. F. C) Housing/auxiliary services. S. D) International programs. F. E) Career services. S. F) Service learning. S. G) Wellness programs. S. I) Advising student groups. F.	EDHE 590A-H. A) Admissions. F. B) College union administration. F. C) Housing/auxiliary services. S. D) International programs. F. E) Career services. S. F) Service learning. S. G) Wellness programs. S. H) Advising student groups. F.	Fall 2010
EDUC	486A-J	Practicum. A) K-12 classroom. B) Reading. D) Mathematics. I) Literacy. J) Instruction II.	EDUC 486A-E. A) K-12 classroom. B) Reading. C) Mathematics. D) Literacy. E) Instruction II.	Fall 2010

	PRESENT LISTING	REQUESTED CHANGE	EFFECTIVE DATE
EDUC	525B-E Expert Teaching. Description: Theories related to effective classroom instruction. B) Inclusion, special needs. 02(0-0-2) S. C) Thinking and learning. 02(0-0-2) F. D) Literacy and numeracy. 03-0-0-3) S. E) Standards, assessment. 02(0-0-2) F.	EDUC 525A-D. Description: Theories related to effective classroom instruction. A) Inclusion, special needs. 02(0-0-2) S. B) Thinking and learning. 02(0-0-2) F. C) Literacy and numeracy. 03(0-0-3) S. D) Standards, assessment. 02(0-0-2) F.	Fall 2010
EDUC	591B-H Workshop. B) Instruction. D) Community partnerships. E) Annenberg/CPB science instruction. Var [1-3]. (NT-T) F) Annenberg/CPB mathematics instruction. Var [1-3]. (NT-T) G) Annenberg/CPB educational theory and issues. Var [1-3]. (NT-T) H) Annenberg/CPB humanities instruction. Var [1-3]. (NT-T)	EDUC 591A-F. A) Instruction. B) Community partnerships. C) Annenberg/CPB science instruction. Var [1-3]. (NT-T) D) Annenberg/CPB mathematics instruction. Var [1-3]. (NT-T) E) Annenberg/CPB educational theory and issues. Var [1-3]. (NT-T) F) Annenberg/CPB humanities instruction. Var [1-3]. (NT-T)	Fall 2010
EDUC	725 Professionalism in Education and Leadership. F.	F, SS.	Summer 2010
ERHS	541 Ergonomics in Product and Process Design. S.	Spring (odd years).	Spring 2011
ERHS	726 Aerosols and Occupational Health. Description: Properties and behavior of industrial aerosols emphasizing measurement and control of dust related to disease.	Aerosols and Environmental Health. Description: Properties and behavior of environmental and occupational aerosols emphasizing how airborne particles affect health of humans and the environment.	Fall 2010
HES	495B-G Independent Study. B) Health. D) Biomechanics. E) Exercise science. F) Neuromuscular physiology. G) Honors.	HES495A-E. A) Health. B) Biomechanics. C) Exercise Science. D) Neuromuscular physiology. E) Honors.	Fall 2010
HES	496B-F Group Study. B) Health. C) Athletics. D) Biomechanics. E) Exercise science. F) Neuromuscular physiology.	HES496A-E. A) Health. B) Athletics. C) Biomechanics. D) Exercise science. E) Neuromuscular physiology.	Fall 2010
HES	695B-E Independent Study. B) Health. D) Exercise science. E) Biomechanics. F) Neuromuscular physiology.	HES695A-D. A) Health. B) Exercise science. C) Biomechanics. D) Neuromuscular physiology.	Fall 2010

		PRESENT LISTING	REQUESTED CHANGE	EFFECTIVE DATE
HES	696B-G	Group Study. B) Health. C) Exercise and nutrition. E) Exercise science. F) Biomechanics. G) Neuromuscular physiology.	HES696A-E. A) Health. B) Exercise and nutrition. C) Exercise science. D) Biomechanics. E) Neuromuscular physiology.	Fall 2010
MATH	133	Financial Mathematics. F, S, SS.	F.	Fall 2010
MECH	102	Mechanical Engineering Problem Solving. Description: Matlab programming and engineering problem solving techniques, algorithms and processes from physics and calculus first principles.	Description: Programming and engineering problem solving techniques, algorithms and processes from physics and calculus first principles.	Summer 2010
SOCR	755	Advanced Soil Microbiology. S (odd years).	S (even years).	Spring 2010
SOWK	371A-F	Social Work with Selected Populations. Description: Application of practice processes with selected populations. A) Children and families. F,S. B) Juvenile offenders. F. C) Adult offenders. S. E) Substance abusers. S. F) Social gerontology. F,S.	SOWK 371A-E. Description: Application of practice processes with selected populations. A) Children and families. F,S. B) Juvenile offenders. F. C) Adult offenders. S. D) Substance abusers. S. E) Social gerontology. F,S.	Fall 2010

Minor Changes to Curricula

**College of Engineering
 Major in Engineering Science
 Engineering Physics Concentration**

Effective Fall 2009

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	31	
SOPHOMORE	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	33	
JUNIOR	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	31-32	
SENIOR	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	38-39	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
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PROGRAM TOTAL = 134 credits

⁸ Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

Major in Engineering Science **Effective Fall 2009**
International Engineering and International Studies Concentration

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
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FRESHMAN

<u>Additional Requirements for Graduation</u> ⁷	<u>0</u>
TOTAL	31

SOPHOMORE

<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>
TOTAL	33

JUNIOR

<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>
TOTAL	30

SENIOR

<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>
TOTAL	29-31

FIFTH YEAR

<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>
TOTAL	32-34

PROGRAM TOTAL = 157 credits

⁸ Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

Major in Engineering Science **Effective Fall 2009**
Space Engineering Concentration

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
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FRESHMAN

<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>
TOTAL	30

SOPHOMORE

<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>
TOTAL	32

JUNIOR

<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>
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<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
	TOTAL	32-33	
SENIOR			
	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	42-43	
PROGRAM TOTAL = 137 credits			

⁸ [Students are required to participate in the Professional Learning Institute \(PLI\) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity \(2 workshops\), Innovation \(2 workshops\), Leadership \(2 workshops\), Civic and Public Engagement \(2 workshops\), and Ethics \(3 workshops\). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.](#)

**Major in Engineering Science
 Teacher Education Concentration**

Effective Fall 2009

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	33-34	
SOPHOMORE			
	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	32	
JUNIOR			
	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	30	
SENIOR			
	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	29-31	
FIFTH YEAR			
	<u>Additional Requirements for Graduation</u> ⁸	<u>0</u>	
	TOTAL	12	
PROGRAM TOTAL = 137-139 credits			

⁸ [Students are required to participate in the Professional Learning Institute \(PLI\) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity \(2 workshops\), Innovation \(2 workshops\), Leadership \(2 workshops\), Civic and Public Engagement \(2 workshops\), and Ethics \(3 workshops\). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.](#)

**Department of Chemical and Biological Engineering
 Major in Chemical and Biological Engineering**

Effective Fall 2009

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
	<u>Additional Requirements for Graduation</u> ⁷	<u>0</u>	

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
	TOTAL	<u>32</u>	
SOPHOMORE			
	<u>Additional Requirements for Graduation</u> ⁷	<u>0</u>	
	TOTAL	<u>33</u>	
JUNIOR			
	<u>Additional Requirements for Graduation</u> ⁷	<u>0</u>	
	TOTAL	<u>33</u>	
SENIOR			
	<u>Additional Requirements for Graduation</u> ⁷	<u>0</u>	
	TOTAL	<u>32</u>	
PROGRAM TOTAL = 130 credits			

⁷ Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

**Department of Electrical and Computer Engineering
 Major in Computer Engineering**

Effective Fall 2009

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
	<u>Additional Requirements for Graduation</u> ⁷	<u>0</u>	
	TOTAL	<u>30</u>	
SOPHOMORE			
	<u>Additional Requirements for Graduation</u> ⁷	<u>0</u>	
	TOTAL	<u>32-34</u>	
JUNIOR			
	<u>Additional Requirements for Graduation</u> ⁷	<u>0</u>	
	TOTAL	<u>32</u>	
SENIOR			
	<u>Additional Requirements for Graduation</u> ⁷	<u>0</u>	
	TOTAL	<u>33</u>	
PROGRAM TOTAL = 127-129 credits			

⁷ Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

**Department of Electrical and Computer Engineering
 Major in Electrical Engineering
 Electrical Engineering Concentration**

Effective Fall 2009

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

Course	Title	Cr	AUCC
FRESHMAN			
	Additional Requirements for Graduation⁶	<u>0</u>	
	TOTAL	29-30	
SOPHOMORE			
	Additional Requirements for Graduation⁶	<u>0</u>	
	TOTAL	31	
JUNIOR			
	Additional Requirements for Graduation⁶	<u>0</u>	
	TOTAL	32	
SENIOR			
	Additional Requirements for Graduation⁶	<u>0</u>	
	TOTAL	33	
PROGRAM TOTAL = 125-126 credits			

⁶ Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

**Major in Electrical Engineering
 Lasers and Optical Engineering Concentration**

Effective Fall 2009

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

Course	Title	Cr	AUCC
FRESHMAN			
	Additional Requirements for Graduation⁷	<u>0</u>	
	TOTAL	29-30	
SOPHOMORE			
	Additional Requirements for Graduation⁷	<u>0</u>	
	TOTAL	31	
JUNIOR			
	Additional Requirements for Graduation⁷	<u>0</u>	
	TOTAL	33	
SENIOR			
	Additional Requirements for Graduation⁷	<u>0</u>	
	TOTAL	32	
PROGRAM TOTAL = 125-126 credits			

⁷ Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: Global and Cultural Diversity (2 workshops), Innovation (2 workshops), Leadership (2 workshops), Civic and Public Engagement (2 workshops), and Ethics (3 workshops). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

**Department of Mechanical Engineering
 Major in Mechanical Engineering**

Effective Fall 2009

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
	Additional Requirements for Graduation ⁷	<u>0</u>	
	TOTAL	31	
SOPHOMORE			
	Additional Requirements for Graduation ⁷	<u>0</u>	
	TOTAL	34	
JUNIOR			
	Additional Requirements for Graduation ⁷	<u>0</u>	
	TOTAL	32	
SENIOR			
	Additional Requirements for Graduation ⁷	<u>0</u>	
	TOTAL	32	
PROGRAM TOTAL = 129 credits			

⁷ Students are required to participate in the Professional Learning Institute (PLI) program as a requirement for graduation. The program consists of eleven PLI workshops distributed by focus areas as follows: [Global and Cultural Diversity \(2 workshops\)](#), [Innovation \(2 workshops\)](#), [Leadership \(2 workshops\)](#), [Civic and Public Engagement \(2 workshops\)](#), and [Ethics \(3 workshops\)](#). Each workshop is between 1-2 hours long and no outside preparation is required to attend any of the workshops. Attendance at the required workshops may be spread over the student's four-year program.

**College of Liberal Arts
 Department of History
 Major in History
 Liberal Arts Concentration**

Effective Fall 2010

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
Select one course from the following:			
HIST 101	Western Civilization, Modern ¹	3	3D
	OR		
HIST 121	Asian Civilizations II ¹	<u>3</u>	<u>3D</u>
HIST 171	World History, 1500-Present ¹	3	3D
	TOTAL	30	
PROGRAM TOTAL = 120 credits			

^P This course has at least one prerequisite. Check the Courses of Instruction section of the catalog or <http://catalog.colostate.edu/front/courses-of-instruction.aspx> to see the course prerequisites.

¹ Grade of C or better required.

**Major in History
 Social Studies Teaching Concentration**

Effective Fall 2010

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
FRESHMAN			
<i>Select one course from the following:</i>			
HIST 101	Western Civilization, Modern ¹	3	3D
	OR		
<u>HIST 121</u>	<u>Asian Civilizations II¹</u>	<u>3</u>	<u>3D</u>
HIST 171	World History, 1500-Present ¹	3	3D
TOTAL		30	

PROGRAM TOTAL = 120 credits

^P This course has at least one prerequisite. Check the Courses of Instruction section of the catalog or <http://catalog.colostate.edu/front/courses-of-instruction.aspx> to see the course prerequisites.

¹ Grade of C or better required.

**College of Natural Sciences
 Department of Computer Science
 Major in Applied Computing Technology
 Computing Education Concentration**

Effective Fall 2010

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
JUNIOR			
	300-level computer science	<u>4</u>	<u>3</u>
TOTAL		31	<u>30</u>
SENIOR			
	Electives	0	<u>1</u>
TOTAL		27	<u>28</u>
TOTAL		27	<u>28</u>

PROGRAM TOTAL = 120 credits

**Major in Applied Computing Technology
 Computing Technology Concentration**

Effective Fall 2010

(Only the changes are shown, not the entire program. Deletions are in ~~strikeout~~; additions are in underline.)

<u>Course</u>	<u>Title</u>	<u>Cr</u>	<u>AUCC</u>
SENIOR			
CS 314 ^P	Software Development Methods	<u>4</u>	4A, 4B
	Electives ^{4, 8}	14	<u>15</u>
TOTAL		30	

PROGRAM TOTAL = 120 credits

^P This course has at least one prerequisite. Check the Courses of Instruction section of the catalog or <http://catalog.colostate.edu/front/courses-of-instruction.aspx> to see the course prerequisites.

⁴ Students are encouraged to carefully choose their free electives in conjunction with an advisor to provide a focus area relevant to their career goals.

⁸ Forty-two credits of upper-division work (300- to 400-level courses) is required for graduation. Enough upper-division elective credits should be taken to bring the overall total to 42.