

Course Changes

Texas A&M University
Departmental Request for a Change in Course
Undergraduate ♦ Graduate ♦ Professional

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.III 21 2015

GRADUATE STUDIES

• Submit original form and attachments •

Form Instructions

1. Request submitted by (*Department or Program Name*): Educational Administration & Human Resource Development (EAHR)
2. Course prefix, number and complete title of course: EDAD 605, The Secondary School Principalship
Attach a brief supporting statement for changes made to items 3a thru 3d, and 6 below.
3. Change requested
 - a. Prerequisite(s): From: _____ To: _____
 - b. Withdrawal (reason): _____
 - c. Cross-list with: _____
Cross-listed courses require the signature of both department heads.
 - d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
 - e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. **Attach a course syllabus.**
4. For informational purposes only, please indicate course number if this course will be stacked: _____
5. Complete current course title and current catalog course description: EDAD 605, The Secondary School Principalship: Role of principal in the organization of junior and senior high schools; preparation for instructional management, program planning, evaluation and scheduling.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words): EDAD 605, School Principalship: Role of the principal in organization and administration of prekindergarten through grade 12 schools; management of instruction, educational program planning, legal situations, evaluation, scheduling and programs.

7. a. As currently in course inventory:

Prefix		Course #		Title (excluding punctuation)																						
E	D	A	D	6	0	5	S	E	C	S	C	H	L	P	R	I	N	C	I	P	A	L	S	H	I	P
Lect.	Lab	SCH	CIP and Fund Code				Admin. Unit				FICE Code				Level											
0	3	0	0	0	3	1	3	0	4	0	9	0	8	7	6	0	0	3	6	3	2	1				

- b. Change to:

Prefix		Course #		Title (excluding punctuation)																						
E	D	A	D	6	0	5	S	C	H	O	O	L	P	R	I	N	C	I	P	A	L	S	H	I	P	
Lect.	Lab	SCH	CIP and Fund Code				Admin. Unit				Acad. Year				FICE Code											
0	3	0	0	0	3	1	3	0	4	0	9	0	8	7	6	1	6	-	1	7	0	0	3	6	3	2

Approval recommended by:

Level 1

Beverly Irby 6/22/15 07/21/15
 Department Head or Program Chair (*Type Name & Sign*) Date Chair, College Review Committee Date

Fredrick M. Nafukho 6/22/15 07/21/15
 Department Head or Program Chair (*Type Name & Sign*) Date Dean of College Date

(if cross-listed course)

Submitted to Coordinating Board by: 8-11-15
 Chair, GC or UCC Date

Associate Director, Curricular Services Date Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu





Texas A&M University
Departmental Request for a Change in Course
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KG JUL 24 2015

GRADUATE STUDIES

Form Instructions

1. Course request type: Undergraduate Graduate First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Horticultural Sciences
3. Course prefix, number and complete title of course: HORT 605 Internet Applications for Horticulture

Attach a brief supporting statement for changes made to items 4a thru 4d, and 10 below.

4. Change requested
- a. Prerequisite(s): From: _____ To: _____
- b. Withdrawal (reason): Course is no longer offered.
- c. Cross-list with: _____
- Cross-listed courses require the signature of both department heads.
- d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
- e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. **Attach a course syllabus.**
5. Is this an existing core curriculum course? Yes No
6. If grade type is changing for existing course, indicate the new grade type: Grade S/U P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: _____
- I verify that I have reviewed the FAQ for *Export Control Basics for Distance Education* (<http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education>).

9. Complete current course title and current catalog course description:
 HORT 605 Internet Applications for Horticulture. (2-2). Credit 3. Internet applications for horticulture presents the theory and practice of computer networks and networking so that the information and educational content (not the hardware) is the key; the focus is on the World Wide Web and creating Web materials for teaching, research, and extension applications. Prerequisite: Graduate classification.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

Prefix	Course #	Title (excluding punctuation)										
HORT	605	Internet Applications for Hort										
Lect.	Lab	Other	SCH	CIP and Fund Code	Admin. Unit	FICE Code					Level	
2.00	2.00		3.00	1107010006	1520	0	0	3	6	3	2	6

b. Change to:

Prefix	Course #	Title (excluding punctuation)											
Lect.	Lab	Other	SCH	CIP and Fund Code	Admin. Unit	Acad. Year					FICE Code	Level	
							-						

Approval recommended by:

Patricia Klein 07/14/2015 *Patricia Klein*
 Department Head or Program Chair (Type Name & Sign) Date

Department Head or Program Chair (Type Name & Sign) Date
 (if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

W. J. Read 7/22/15
 Chair, College Review Committee Date

W. J. Read 7/22/15
 Dean of College Date

[Signature] 8-11-15
 Chair, GC or UCC Date

Date

Effective Date



**COLLEGE OF AGRICULTURE
AND LIFE SCIENCES
DEPARTMENT OF HORTICULTURAL SCIENCES**

July 14, 2015

TO: Curricular Services

Remove HORT 605 from Catalog

We are requesting that HORT 605 be removed from the TAMU course catalog. The course has not been taught in many years and we do not plan on teaching it again.



Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
 • Submit original form and attachments •

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JUL 14 2015

GRADUATE STUDIES

Form Instructions

1. Course request type: Undergraduate Graduate First Professional (DBS, MD, JD, PharmD, DVM)
 2. Request submitted by (Department or Program Name): Select or Type Department/Program Name
 3. Course prefix, number and complete title of course: OCNG 657 Data Methods and Graphical Representation in Oceanography
- Attach a brief supporting statement for changes made to items 4, 9 through 10 below.
4. Change requested
 - a. Prerequisite(s): From: Knowledge of vector calculus and basic statistics To: OCNG 655 or equivalent or permission of instructor
 - b. Withdrawal (reason): _____
 - c. Cross-list with: _____

Cross-listed courses require the signature of both department heads.

 - d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
 - e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. **Attach a course syllabus.**
 5. Is this an existing core curriculum course? Yes No
 6. If grade type is changing for existing course, indicate the new grade type: Grade S/U P/F (CLMD)
 7. If this course will be stacked, please indicate the course number of the stacked course: _____
 - I verify that I have reviewed the FAQ for *Export Control Basics for Distance Education* (<http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education>).

9. Complete current course title and current catalog course description:
Data Methods and Graphical Representation in Oceanography. Provide the basic tools and techniques to process, analyze, and visualize oceanographic data sets; multi-disciplinary approach; real-world applications to physical, biological, chemical and geological oceanographic data; basic instruction in the MATLAB programming language.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
Data Methods and Graphical Representation in Oceanography. Application of advanced statistical, quantitative, and computational methods to oceanographic observational data; methodologies emphasized include spectral analysis and representations of time series data, optimal interpolation of irregular data fields, analysis of multiple variables using Empirical Orthogonal Functions, and scientific interpretation of statistical quantities.


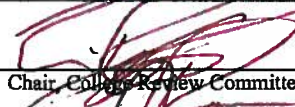
11. a. As currently in course inventory:

Prefix	Course #	Title (excluding punctuation)													
OCNG	657	DATA METHODS GRAPH REP													
Lect.	Lab	Other	SCH	CIP and Fund Code			Admin. Unit			FICE Code			Level		
3.00	0.00	0.00	3.00						0	0	3	6	3	2	6

b. Change to:

Prefix	Course #	Title (excluding punctuation)																	
Lect.	Lab	Other	SCH	CIP and Fund Code			Admin. Unit			Acad. Year			FICE Code			Level			
													0	0	3	6	3	2	

Approval recommended by:

<u>Deborah Thomas</u>  <u>12/3/14</u>	<u></u> <u>12/10/2014</u>
Department Head or Program Chair (Type Name & Sign) Date	Chair, College Review Committee Date
Department Head or Program Chair (Type Name & Sign) Date	Dean of College Date
(if cross-listed course)	<u>8-11-15</u>
Submitted to Coordinating Board by:	Chair, GC or UCC Date
Associate Director, Curricular Services	Date Effective Date

December 1, 2014


MEMORANDUM

TO: Office of the Registrar

THROUGH: Dr. Chris Houser
AOC Dean College of Geosciences

FROM: Dr. Debbie Thomas
Department Head
Department of Oceanography

SUBJECT: Change in Course description for OCNG 657



OCNG 657 is an advanced data analysis course. The old course description was too similar to an undergraduate course taught by the same instructor and did not reflect the advanced nature of the course. This is corrected using the new course description and revised syllabus. The content of the course has not changed. The new course description and syllabus are no more aligned with that content. If you have any questions please contact our Academic Advisor Missy Mathews by email at missy@tamu.edu, or by phone at 979-845-7688.

COURSE SYLLABUS

OCNG 657-600: DATA METHODS AND GRAPHICAL REPRESENTATION IN OCEANOGRAPHY

Term: Spring 2015
Meeting times: TR 9:35 - 10:50 AM
Meeting Room: O&M Building Room 617

Three credit hours

Instructor Information:

Dr. Steven F. DiMarco, Professor and Ocean Observing Team Lead
Department of Oceanography
3146 TAMU
Office: 702D Eller O&M Building
OCNG Phone: 979-862-4168 or GERG Phone: 979-458-9323
Email: sdimarco@tamu.edu
Office Hours: TR 11:00-12:00 PM or by appt., 702D
Admin. Assistant: Ms. Laura Caldwell, 979-845-1231 lcaldwell@geos.tamu.edu

Objective:

To provide instruction on advanced computational tools and statistical methods of oceanographic data processing and analysis and techniques of graphical representation.

Catalogue Description: Catalog Description: Application of advanced statistical, quantitative, and computational methods to oceanographic observational data; methodologies emphasized include spectral analysis and representations of time series data, optimal interpolation of irregular data fields, analysis of multiple variables using Empirical Orthogonal Functions, and scientific interpretation of statistical quantities.

Prerequisites:

Graduate level. OCNG 655 or equivalent or permission of instructor

Textbook:

Emery, W. J., and R. E. Thomson, *Data Analysis Methods in Physical Oceanography*. Elsevier, 2014. 638 pp. Third Edition. (required).

Grading Policy:

80% homework problem sets (5), and 20% final exam. Grades will be based on the following grading system: 90-100%=A, 80-89%=B, 70-79%=C, 60-69%=D, <60=F.

Learning Outcomes:

By taking this course, the student, upon completion, will be able to:

1. Identify instrumentation and sensors suitable for scientific inquiry in oceanography,
2. Critically assess data quality using quantitative techniques,
3. Perform advanced statistical analysis of oceanographic time series data,
4. Produce maps of oceanographic data using objective analysis and optimal interpolation,
5. Use structured and modular programming techniques to write scientific computer programs,
6. Perform modal decomposition of multiple variable oceanographic observations,
7. Select an analysis method that is appropriate to a given dataset,
8. Think critically and objectively about scientific results based on statistical estimates,
9. To effectively design and produce statistical graphics of oceanographic data sets.

Attendance Policy:

Please refer to <http://student-rules.tamu.edu>. Please see Part 1: Academic Rules, #7 Attendance. If you would like a copy of the rule it will be provided to you.

Course Topics/Calender:

Collection

- Week 1. Introduction to Oceanographic instrumentation
- Week 2. Introduction to MATLAB programming and mathematical review
- Week 3. Sampling and Measurement Theory: the Basics of Experimentation.

Processing

- Week 4. Oceanographic Data Processing: Graphical Visualization of Oceanographic Data. Outlier Identification and Removal, Metrics for Quality Assurance and Quality Control
- Week 5.: Filling the Gaps: Interpolating Data and Splines, Causation and Correlation
- Week 6. Designing and Testing Hypotheses: Confidence and Significance Testing

Analysis

- Week 7. Elements of Data Analysis: Least-squares, Linear Estimates and Regression
- Week 8. Elements of Time-Series Analysis: Sampling Theory and Frequency Domain Representation
- Week 9. Convolution and Temporal and Spatial Scales: Oceanographic Field Design
- Weeks 10-11. Digital filters and Spectral Analysis of Oceanographic Data
- Week 12. Cross-spectra, Coherency and Tidal (Harmonic) Analysis
- Week 13. Spatial Representation and Analysis of Oceanographic Data Fields
- Week 14a. Non-stationary Data: Wavelets

Database management

- Week 14.b Database Management and Project Legacy, wrap up

Students are encouraged to bring and use their own data sets for class projects.

List of assignments and exams:

Weekly reading assignments.

Homework 0. Due approximately end of week 1.

Homework 1. Problem set due (approximately) end of week 4.

Homework 2. Problem set due (approximately) end of week 6.

Homework 3. Problem set due (approximately) end of week 9.

Homework 4. Problem set due (approximately) end of week 12.

Homework 5. Problem set due (approximately) end of week 14.

Final Test. (written)

Schedule of Lectures and Assignments:

WK1

January 20

Introduction: Data Acquisition

Reading: Course Syllabus

Handout

January 22

Instrumentation: Part 1

Temperature and Salinity

Reading: Chapter 1 and Handout

Homework 0 due

WK2

January 27

Instrumentation: Part 2

Velocity and Pressure

Reading: Chapter 2.1-3

January 29

Basic Sampling

Reading: 3.1-3.2, Handout

WK3

February 3

Probability and Distributions

Reading: Chapter 3.3

February 5

Probability and Moments

Reading: Chapter 3.4-3.7

WK4

February 10

Data Processing: Quick-looks
and Graphical Representation

Reading: Chapter 2.4, Handout

February 12

Errors: Outliers, detrending, Gap-filling

Reading: Chapter 3.16

Homework 1 due

WK5

February 17

Interpolation and Splines

Reading: Chapter 3.17

February 19

Correlation and Covariance

Reading: Chapter 3.13, 3.18

WK6

February 24

Causation, Degrees of Freedom,
Confidence

February 26

Confidence, Significance testing and
Bootstrapping

Reading: 3.13, 3.15

Reading: Chapter 3.10, 3.14, 3.19
Homework 2 due

WK7

March 3

Linear Estimation and Regression
Reading: Chapter 3.12, 3.13

March 5

Elements of Time Series Analysis
Reading: Chapter 5.1-5.3

WK8

March 10

Fourier Series
Reading: Chapter 5.4, Handout

March 12

Time and Frequency domain representation
Reading: Handout

March 16-20

Spring Break

No Class

WK9

March 24

Convolution, Correlation Function
Reading: 5.8 Notes

March 26

Scale Estimation
Reading: Notes
Homework 3 due

WK10

March 31

Scales examples
Reading: Notes

April 2

Filtering and Smoothing
Reading: Chapter 5.6

WK11

April 7

Digital Filters: theory
Reading: Chapter 5.10
Handout

April 9

Choosing the best filter
Reading: Chapter 5.10

WK12

April 14

Cross-spectra and coherency

Reading: 5.8

April 16

Additional spectral methods, Harmonic
Analysis
Reading: Chapter 5.5-5.7
Homework 4 due

WK13

April 21

EOFs: Concepts
Reading: Chapter: 4.1 – 4.3

April 23

EOFs: Theory and Programming
Reading: Chapter 4.3, Handout, Notes

WK14

April 28

Wavelets: theory
Reading: Chapter 5.9

April 30

Data Management and Project Legacy
Reading: Notes, Handout
Homework 5 due

Finals May 7-12

Resources:

Access to University computing resources, e.g. Virtual Desktop. MATLAB access through University site license.

Course Website:

<http://adcp.tamu.edu/~stevendimarco/OCNG657>

Americans with Disabilities Act (ADA):

The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Cain Hall, Room B118, or call 845-1637.

Copyright and Plagiarism Policy:

All materials generated for this class are copyrighted. These materials include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless permission is expressly granted.

As commonly defined, plagiarism consists of passing off as one's own the ideas, words, writings, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, *even if you should have the permission of that person*. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated.

If you have any questions regarding plagiarism, please consult the latest issue of the *Texas A&M University Students Rules*, student-rules.tamu.edu, under the section "Scholastic Dishonesty."

For more information regarding plagiarism in GEOS 470, please see the instructor or the handout "Assignment Guidelines".

Academic Integrity

Aggie Code of Honor: "An Aggie does not lie, cheat, or steal, or tolerate those who do."
For additional information please visit <http://aggiehonor.tamu.edu>.



Texas A&M University

Departmental Request for a Change in Course

Undergraduate ♦ Graduate ♦ Professional

• Submit original form and attachments •

Form Instructions

1. Course request type: Undergraduate Graduate First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Veterinary Integrative Biosciences
3. Course prefix, number and complete title of course: VIBS 670, Basic Environmental Toxicology
- Attach a brief supporting statement for changes made to items 3a thru 4d, and 10 below.**
4. Change requested
- a. Prerequisite(s): From: no change To: no change
- b. Withdrawal (reason): no change
- c. Cross-list with: no change
- Cross-listed courses require the signature of both department heads.**
- d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
- e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. **Attach a course syllabus.**
5. Is this an existing core curriculum course? Yes No
6. If grade type is changing for existing course, indicate the new grade type: Grade S/U P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: _____
- I verify that I have reviewed the FAQ for *Export Control Basics for Distance Education* (<http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education>).

9. Complete current course title and current catalog course description: Current course title: Basic Environmental Toxicology; Catalog Course Description for VIBS 670: Introduction to general principles of toxicology; test methods, target organs, toxicity of major classes of toxins/toxicants, and risk assessment for engineers and other non-toxicologists; risk assessment methodology. Prerequisite: VIBS 602 or approval of instructor.
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Proposed course title: Environmental Toxicology; Proposed catalog course description: Toxic effects of drugs and chemicals on major mammalian organ systems and ecological receptors; general principles of toxicokinetics and toxicodynamics; case studies of toxic effects of environmental exposures. Prerequisite: VIBS 602 or approval of instructor.

11. a. As currently in course inventory:

Prefix	Course #	Title (excluding punctuation)										
VIBS	670	BASIC ENVIRONMENTAL TOXICOLOGY										
Lect.	Lab	Other	SCH	CIP and Fund Code	Admin. Unit	ECE Code					Level	
3.00	0.00		3.00	0002	2873	0	0	3	6	3	2	6

- b. Change to:

Prefix	Course #	Title (excluding punctuation)													
VIBS	670	ENVIRONMENTAL TOXICOLOGY													
Lect.	Lab	Other	SCH	CIP and Fund Code	Admin. Unit	Acad. Year					ECE Code				
3.00	0.00		3.00	0002	2873			-		0	0	3	6	3	2

Approval recommended by:

[Signature] 7/10/15
 Department Head or Program Chair (Type Name & Sign) Date

[Signature] 7/10/15
 Chair, College Review Committee Date

Department Head or Program Chair (Type Name & Sign) Date
 (if cross-listed course)

[Signature] 7/10/15
 Dean of College Date

Submitted to Coordinating Board by:

[Signature] 8-11-15
 Chair, GC or UCC Date

Associate Director, Curricular Services

Date Effective Date