



# *Academic Notes*

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## **ACADEMIC NOTES PUBLICATION SCHEDULE**

Below is the publication schedule for the electronic copy of *Academic Notes*. All submissions for inclusion in *Academic Notes* are due in the Office of Academic Affairs no later than 11:00 a.m. on the Deadline for Items date shown below. Submissions must be in hard copy along with an email, zip drive, or CD with the same information. The electronic version must be formatted either in Word with pages with signatures scanned and inserted as a picture OR PDF saved as text and image. (Do NOT send PDF just saved as an image.) Information submitted to *Academic Notes* that is not accompanied by an electronic version or that is incomplete or unusable will be returned to the appropriate office. *Academic Notes* is available using Acrobat Reader at [http://www.indstate.edu/academicaffairs/academic\\_notes.htm](http://www.indstate.edu/academicaffairs/academic_notes.htm)

If you have questions, please contact Yvonne Russell in Academic Affairs, extension 3662.

## **ACADEMIC NOTES PUBLICATION SCHEDULE**

### **FALL 2014**

<b><u>Deadline for Items</u></b>	<b><u>Issue Date</u></b>
October 1	October 13
October 8	October 20

# CURRICULUM

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# UNDERGRADUATE PROPOSALS

## COURSE REVISIONS

### COLLEGE OF TECHNOLOGY: Built Environment

#### **CNST 214 - Plan Interpretation and Quantity Take-Off**

3 credits

Interpretation of working drawings and quantity take-off for commercial and residential construction projects.

**Prerequisites:** CNST 111

*Remove prerequisites to:*

#### **CNST 214 - Plan Interpretation and Quantity Take-Off**

3 credits

Interpretation of working drawings and quantity take-off for commercial and residential construction projects.

*A-F Grading*

*Effective term: Fall 2015*

#### **CNST 310 - Construction Safety**

3 credits

An analysis of OSHA regulations as they pertain to the construction industry. Course includes job site visits and reporting. Upon successful completion of this course, students will receive a ten-hour OSHA certification.

*Change description to:*

#### **CNST 310 - Construction Safety**

3 credits

An analysis of OSHA regulations as they pertain to the construction industry. Course includes job site visits and reporting. Upon successful completion of this course, students will receive a thirty-hour OSHA certification.

*A-F Grading*

*Effective term: Fall 2015*

#### **CNST 318 - Statics and Strength of Materials**

3 credits

Analysis of static forces in construction materials and application of this knowledge to the design of structural components and systems.

**Prerequisites:** MATH 123

*Change prerequisites to:*

#### **CNST 318 - Statics and Strength of Materials**

3 credits

Analysis of static forces in construction materials and application of this knowledge to the design of structural components and systems.

**Prerequisites:** MATH 112 and MATH 115

*A-F Grading*

*Effective term: Fall 2015*

### **CNST 420 - Construction Surveying**

2 credits

Basic surveying, use of instruments, recording and computing data, site layout, and earthwork.

**Prerequisites:** MATH 123.

*Change credits and prerequisites to:*

### **CNST 420 - Construction Surveying**

3 credits

Basic surveying, use of instruments, recording and computing data, site layout, and earthwork.

**Prerequisites:** MATH 112, OR MATH 123, OR MATH 131.

*A-F Grading*

*Effective term: Fall 2015*

## **PROGRAM REVISIONS**

### **COLLEGE OF TECHNOLOGY: Built Environment**

#### **Construction Management Major (90 credits)**

**CIP Code: 522001 Major Code: X08 E830 BS**

#### **Brief Summary:**

Replace MGT 140 with MGT 301, Survey of Management, or TMGT 492, Industrial Supervision. (MGT 140 has been reduced to a 2 credit course; MGT 301 and TMGT 492 are more appropriate for our students.)

Eliminate TMGT 195, Introduction to Computer Applications. (This is no longer required by the ACCE.)

Replace MATH 123, Analytic Geometry and Trigonometry, with MATH 112, Trigonometry. (Trigonometry is adequate for our students. The ACCE requires 3 credit hours beyond college algebra and trig. They have informed us that Statistics, will meet that requirement, so MATH 123 is no longer necessary.)

Add SFTY 341 as an alternative to MATH 241.

Eliminate BUS 204, Ethics in Organizations. (This is no longer required by the ACCE.)

Eliminate ECON 331, Public Finance. (This is no longer required by the ACCE.)

#### **Rationale for Change:**

The American Council for Construction Education (ACCE) is the accrediting agency for Construction Management. The ACCE is in the process of changing their standards from credit hour based to learning outcomes based. Beginning in fall of 2016, the ACCE standards will be a

combination of credit hour and learning outcomes. This is a significant change and requires the CM program to revise its curriculum. The ACCE specifies 20 learning outcomes that all construction programs must address. The CM Program has created a curriculum map that indicates the construction courses that will provide the learning outcomes. The ACCE still uses minimum credit hours for general education requirements. Moreover, the CM Program has revised the Assessment Plan to indicate which courses will be used for assessing the outcomes and when the assessment will occur. Upon approval, TaskStream will be revised accordingly.

**Construction Management Major (81 credits)**

**CIP Code: 522001 Major Code: X08 E830 BS**

**Required Courses:**

**Construction Management:**

CNST 101 - Ethics and Construction 3 credits  
CNST 106 - Architectural Graphics 3 credits  
CNST 111 - Construction Materials, Methods, and Equipment 3 credits  
CNST 111L - Soils Laboratory 1 credit  
CNST 201 - Construction Contract Documents and Project Delivery 3 credits  
CNST 213 - Environmental and Mechanical Systems for Buildings 3 credits  
CNST 214 - Plan Interpretation and Quantity Take-Off 3 credits  
CNST 304 - Construction Scheduling 3 credits  
CNST 306 - Commercial Design and Construction 3 credits  
CNST 314 - Estimating and Bid Preparation 3 credits  
CNST 318 - Statics and Strength of Materials 3 credits  
CNST 330 - Construction Accounting, Finance, and Safety 3 credits  
CNST 351 - Professional Internship 0 credits  
CNST 418 - Design of Temporary Structures 3 credits  
CNST 420 - Construction Surveying 3 credits  
CNST 430 - Senior Seminar 1 credit  
CNST 450 - Construction Project Management 3 credits  
CNST 480 - Construction Capstone 3 credits  
CNST 485 - Government Construction Contracting 3 credits

**Electronics and Computer Technology:**

ECT 369 - Electrical Construction 3 credits

**Other Required Courses Outside of Department:**

TMGT 492 - Industrial Supervision 3 credits OR MGT 301, Survey of Management

**Accounting:**

ACCT 200 - Survey of Accounting 3 credits

**Business:**

BUS 263 – Legal Environment and Business 3 credits

**Directed Foundational Studies:****Quantitative Literacy:**

MATH 115 - College Algebra 3 credits

**Other Mathematics Courses:**

MATH 112 - Trigonometry 2 credits

MATH 241 - Principles of Statistics 3 credits

Or

SFTY 341 - Applied Probability and Statistics for Engineering and Technology

**Laboratory Science (eight credits of the following):**

PHYS 105 - General Physics I 3 credits

PHYS 105L - General Physics I Laboratory 1 credit

Or

CHEM 105 - General Chemistry I 3 credits

CHEM 105L - General Chemistry I Laboratory 1 credit

Or

ENVI 110 - Introduction to Environmental Sciences 3 credits

ENVI 110L - Environmental Sciences: Human and Environmental Change Laboratory 1 credit

Or

ENVI 170 - Earth Science 3 credits

ENVI 170L - Earth Science Laboratory 1 credit

**Social or Behavioral Sciences:**

ECON 100 – Basic Economics 3 credits

*Effective term: Fall 2015*

**COLLEGE OF ARTS AND SCIENCES: Earth and Environmental Systems**

**Earth and Environmental Sciences Major (58-75 credits)**

**CIP Code: 400601 Major Code: 2124**

**Brief Summary:**

The B.S. degree program is being reduced to 70 credits in compliance with the University's Long Program Review. This will be achieved by:

1. Removing ENVI 457 Environmental Geology from the geoscience core as it is not a typical core requirement in most geoscience programs. We have also encountered scheduling problems with ENVI 457 because it is offered every other year due to staffing issues. This makes it difficult for students to fit the course into their schedules, and forces them to complete the course without having the proper background. The two year rotation also results in large class sizes (e.g., 40 students), making it difficult to conduct the course in seminar format. ENVI 457 Environmental Geology will be added to the Directed Electives under the category of Environmental Processes.

2. Removing the option of completing PHYS 115/115L and PHYS 116/116L instead of PHYS 105/105L and PHYS 106/106L because PHYS 115/115L and PHYS 116/116L require an additional credit hour, each. If a student wishes to complete the higher level physics courses, the department advisor will petition for them to count in the program.

Additionally, a typo in the "Old Program" will also be corrected. Under the "Directed Electives" the word consultation will be changed to consultation.

We are also revising the major to provide our students with the option of completing either CHEM 106/106L General Chemistry II or ENVI 481 Geochemistry. The Earth and Environmental Sciences major is relatively new, and we have found that our majors are very interested in applying chemistry to earth materials but are having a difficult time fitting ENVI 481 into their curriculum along with CHEM 106/106L. ENVI 481 is a suitable substitution because it has considerable overlap with CHEM 106/106L in the areas of thermodynamics, reaction rates, aqueous equilibria, and physical properties of earth materials. The students also benefit from the lab activities that are related more closely to geoscience applications. ENVI 481 content also focuses on soil and atmosphere geochemistry, organic geochemistry, and geochemical cycles. We believe it would be beneficial to the students to have the option of either pursuing the more traditional route of taking CHEM 106/106L or selecting ENVI 481 to enhance their career options. CHEM 106/106L is often required in graduate programs and would benefit those students pursuing advanced degrees. ENVI 481 is an important course for students pursuing careers in the environmental field and would be an option for students pursuing a B.S. in geosciences as a terminal degree.

### **Rationale for Change:**

Students working in the environmental field often have successfully completed a chemistry sequence, but do not fully understand how the concepts are applied to interpret real world data and solve real problems. ENVI481 has been recently revised to provide students with lectures and field/laboratory activities that will help prepare them more directly for work in government and industry professions. The course presents many of the same basic concepts presented in CHEM106/106L but with explicit examples and applications to geosciences.

**Proposed Catalog Copy:**

**Earth and Environmental Sciences Major**  
**CIP Code: 400601 Major Code: 2124**

**EARTH AND ENVIRONMENTAL SCIENCES MAJOR**  
(58-70 credits)

**COMMON CORE FOR ALL DEPARTMENTAL CONCENTRATIONS (14 CREDITS)**

ENVI 110 - Introduction to Environmental Sciences 3 credits  
ENVI 110L - Environmental Sciences: Human and Environmental Change Laboratory 1 credits  
ENVI 130 - World Cultures and Environments 3 credits  
ENVI 170 - Earth Science 3 credits  
ENVI 170L - Earth Science Laboratory 1 credits  
ENVI 460 - Conservation and Sustainability of Natural Resources 3 credits

**MATHEMATICS AND SCIENCE CORE FOR EARTH AND ENVIRONMENTAL SCIENCES MAJOR (16 CREDITS):**

CHEM 105 - General Chemistry I 3 credits  
CHEM 105L - General Chemistry I Laboratory 1 credits  
MATH 131 - Calculus I 4 credits  
MATH 132 - Calculus II 4 credits  
PHYS 105 - General Physics I 3 credits  
PHYS 105L - General Physics I Laboratory 1 credits

**COMPLETE ONE OF THE FOLLOWING CONCENTRATIONS:**

***ATMOSPHERE AND SURFACES PROCESSES CONCENTRATION (13 CREDITS)***

ENVI 211 - Physical Geography 3 credits  
ENVI 350 - Geomorphic Processes 3 credits  
ENVI 353 - Weather and Climate 3 credits

**CHOOSE ONE PAIR FROM THE FOLLOWING:**

CHEM 106 - General Chemistry II 3 credits  
CHEM 106L - General Chemistry II Laboratory 1 credits  
Or  
PHYS 106 - General Physics II 3 credits  
PHYS 106L - General Physics II Laboratory 1 credits

**DIRECTED ELECTIVES (15 CREDITS)**

See list below



**GEOSCIENCE CONCENTRATION (24-25 CREDITS)**

ENVI 270 - Earth History 3 credits  
ENVI 380 - Mineralogy 3 credits  
ENVI 382 - Petrology 3 credits  
ENVI 385 - Structural Geology 3 credits  
ENVI 389 - Introduction to Field Geology 1 credits  
ENVI 389L - Introduction to Field Geology Laboratory 1 credits  
ENVI 475 - Stratigraphy and Sedimentation 3 credits  
PHYS 106 - General Physics II 3 credits  
PHYS 106L - General Physics II Laboratory 1 credits

**CHOOSE ONE FROM THE FOLLOWING:**

ENVI 481 Geochemistry 3 credits  
Or the pair of  
CHEM 106 - General Chemistry II 3 credits  
CHEM 106L - General Chemistry II Laboratory 1 credits

**DIRECTED ELECTIVES (15 CREDITS)**

See list below

**DIRECTED ELECTIVES**

**FOR ATMOSPHERE AND SURFACES CONCENTRATION (AT LEAST ONE COURSE FROM EACH AREA):**

**ATMOSPHERE AND HYDROSPHERE:**

ENVI 361 - Oceanography 3 credits  
ENVI 453 - Climatology 3 credits  
ENVI 454 - Introduction to Hydrology 3 credits

**LANDSCAPES:**

ENVI 351 - Regional Geomorphology 3 credits  
ENVI 452 - Quaternary Environments 3 credits  
ENVI 463 - Soil Genesis and Classification 3 credits

**METHODS OF ENVIRONMENTAL ANALYSIS:**

ENVI 401 - Geographic Information Systems: Applications 3 credits  
ENVI 405 - Fundamentals of Remote Sensing 3 credits  
ENVI 415 - Advanced Quantitative Geography 3 credits

ENVI 490 - Field Geography of the United States 1-6 credits

**FOR GEOSCIENCE CONCENTRATION (NO MORE THAN 6 CREDITS FROM ANY CATEGORY):**

**ENVIRONMENTAL PROCESSES:**

ENVI 350 - Geomorphic Processes 3 credits

ENVI 351 - Regional Geomorphology 3 credits

ENVI 450 - Environmental Modeling and Mapping 3 credits

ENVI 452 - Quaternary Environments 3 credits

ENVI 457 - Environmental Geology 3 credits

ENVI 463 - Soil Genesis and Classification 3 credits

ENVI 471 - Quaternary Paleoecology 3 credits

Or up to 3 credits of other related science courses in consultation with the major advisor.

**GEOARCHAEOLOGY:**

ENVI 201 - Prehistory and Climate Change 3 credits

ENVI 260 - Archaeology Laboratory Practicum 1 credits

ENVI 310 - Indians of North America 3 credits

ENVI 436 - Environmental Archaeology 3 credits

ENVI 445 - Archaeological Methods 3 credits

ENVI 446 - Midwestern Archaeology 3 credits

ENVI 447 - Current Issues in Archaeology 3 credits

ENVI 491 - Archeological Field School 6 credits

Or up to 3 credits of other related archaeology courses in consultation with the major advisor.

**GEOBIOLOGY:**

ENVI 308 - Human Evolution 3 credits

ENVI 440 - Human Ecology 3 credits

ENVI 458 - Medical Geology 3 credits

ENVI 465 - Fundamentals of Tree Ring Research 3 credits

ENVI 470 - Paleontology and Geobiology 3 credits

ENVI 479 - Global Biogeochemical Cycles 3 credits

Or up to 3 credits of other related science courses in consultation with the major advisor.

**PHYSICAL GEOSCIENCES:**

ENVI 376 - Dinosaurs, Quakes, and Volcanoes 3 credits

ENVI 376L - Dinosaurs, Quakes, and Volcanoes Laboratory 1 credits

ENVI 360 - General Astronomy 3 credits

ENVI 482 - Volcanic Processes and Hazards 3 credits

ENVI 483 - Mineral Resources 3 credits

ENVI 484 - Energy Resources 3 credits

ENVI 486 - Geophysics 3 credits  
ENVI 489 - Field Geology 1-9 credits (take 3 credits)  
Or up to 3 credits of other related science courses in consultation with the advisor.

### **RESEARCH:**

ENVI 488 - Geoscience Research Methods 3 credits  
ENVI 492 - Internship 3-6 credits  
ENVI 496 - Advanced Research 1-6 credits  
ENVI 497 - Seminar in Advanced Topics 1-9 credits  
ENVI 499 - Senior Seminar and Research 1-3 credits (take 3 credits)

### **WATER AND GEOCHEMISTRY:**

ENVI 356 - Water and Environmental Health 3 credits  
ENVI 361 - Oceanography 3 credits  
ENVI 454 - Introduction to Hydrology 3 credits  
ENVI 455 - Groundwater Hydrology 3 credits  
ENVI 456 - Lakes and Wetlands 3 credits  
ENVI 481 - Geochemistry 3 credits  
Or up to 3 credits of other related science courses in consultation with the major advisor.

*Effective term: Fall 2015*

## **UNDERGRADUATE APPROVALS**

### **NEW COURSES**

**BAYH COLLEGE OF EDUCATION: Communication Disorders and Counseling, School and Educational Psychology**

**CD 398 – Introduction to Clinical Methods and Procedures**  
3 credits

An introduction to clinical practice. Students engage in directed observation of clinical sessions, and learn about clinical aspects such as data collection, reinforcement, feedback, goal writing, and writing reports.

**Prerequisites:** CD 211, 212, 213, 225 with a grade of 'C' or better.

**Note:** All communication disorders courses may require observation experiences in addition to class time.

*A-F Grading*

*Effective term: Fall 2015*

### **COURSE REVISIONS**

**BAYH COLLEGE OF EDUCATION: Communication Disorders and Counseling, School**

## **and Educational Psychology**

### **CD 225 – Articulation Disorders and Management**

3 credits

Introduction to the nature, diagnosis, and treatment of articulation disorders.

**Prerequisites:** CD 211, 212, and 213.

**Note:** All communication disorders courses may require observation experiences in addition to class time.

*Change of prerequisites to:*

### **CD 225 – Articulation Disorders and Management**

3 credits

Introduction to the nature, diagnosis, and treatment of articulation disorders.

**Prerequisites:** CD 211, 213.

**Note:** All communication disorders courses may require observation experiences in addition to class time.

*A-F Grading*

*Effective term: Fall 2015*

### **CD 226 – Language Disabilities**

3 credits

Identification and remediation of language disabilities. Emphasis is on selected diagnostic procedures and remediation techniques

**Prerequisites:** CD 211, 212, and 213.

**Note:** All communication disorders courses may require observation experiences in addition to class time.

*Change of prerequisites to:*

### **CD 226 – Language Disabilities**

3 credits

Identification and remediation of language disabilities. Emphasis is on selected diagnostic procedures and remediation techniques

**Prerequisites:** CD 211, 213.

**Note:** All communication disorders courses may require observation experiences in addition to class time.

*A-F Grading*

*Effective term: Fall 2015*

### **CD 311 – Evaluation of Communication Disorders**

3 credits

Examination of a variety of evaluation instruments utilized in communication disorders and techniques of therapy management. Practicum experiences in evaluation are provided.

**Prerequisites:** TEP-I, CD 224, 225, 226.

**Note:** All communication disorders courses may require observation experiences in addition to class time.

*Change of prerequisites to:*

### **CD 311 – Evaluation of Communication Disorders**

3 credits

Examination of a variety of evaluation instruments utilized in communication disorders and techniques of therapy management. Practicum experiences in evaluation are provided.

**Prerequisites:** CD 211, 212, 213, 225, 226.

**Note:** All communication disorders courses may require observation experiences in addition to class time.

*A-F Grading*

*Effective term: Fall 2015*

### **CD 400 – Clinical Practicum in Speech, Language, and Hearing**

3 credits

A continuation of clinical practicum in settings both on and off campus with emphasis on the diagnosis and therapy of a wide variety of speech, language, and hearing disorders.

**Prerequisites:** CD 399

**Note:** All communication disorders courses may require observation experiences in addition to class time. Open to graduate students. Graduate students are required to do additional work of a research nature.

*Change of description and prerequisites to:*

### **CD 400 – Clinical Practicum in Speech, Language, and Hearing**

3 credits

Students will work directly with persons having speech and/or language disorders.

**Prerequisites:** CD 398

**Note:** All communication disorders courses may require observation experiences in addition to class time.

*A-F Grading*

*Effective term: Fall 2015*

### **CD 411 – Phonological Disorders**

3 credits

Application of phonological theories to understanding, assessing, and remediating phonological process disorders.

**Prerequisites:** CD 399

**Note:** All communication disorders courses may require observation experiences in addition to class time. Open to graduate students. Graduate students are required to do additional work of a research nature.

*Change of description and prerequisites to:*

### **CD 411 – Phonological Disorders**

3 credits

An introduction to clinical practice. Students engage in directed observation of clinical sessions. Description: Application of phonological theories to understanding, assessing, and remediating phonological process disorders.

**Prerequisites:** CD 211, 212, 213, 225

**Note:** All communication disorders courses may require observation experiences in addition to class time.

*A-F Grading*

*Effective term: Fall 2015*

## **COURSE BANKING**

## **BAYH COLLEGE OF EDUCATION: Elementary, Early, and Special Education**

### **ELED 101 - Introduction to Teaching**

1 credits

This course provides students with the opportunity to develop an understanding of teaching as a career choice and the requirements of the teaching profession. This course requires hours of community engagement and experiential learning working with children in community agencies during the semester.

*A-F Grading*

*Effective term: Spring 2015*

## **GRADUATE APPROVALS**

### **NEW COURSES**

## **BAYH COLLEGE OF EDUCATION: Communication Disorders and Counseling, School and Educational Psychology**

### **CD 611 – Speech Sound Disorders in Children**

3 credits

Advanced study of the nature, causes, assessment, diagnosis, and treatment of speech sound disorders as it relates to the pediatric population.

*A-F Grading*

*Effective term: Fall 2015*

### **COURSE REVISIONS**

## **BAYH COLLEGE OF EDUCATION: Communication Disorders and Counseling, School and Educational Psychology**

### **CD 520 – Microcomputer Applications for Individuals with Disabilities**

3 credits

Study of current approaches to the use of computers with individuals with disabilities: specific training in assessing and providing for the needs of individuals with disabilities and adapting microcomputers to enhance the communication abilities of the non-speaking/language impaired child adult.

*Change title and description to:*

### **CD 520 – Augmentative and Alternative Communication**

3 credits

Advanced study of the use of augmentative and alternative communication strategies and assistive technology with children and adults having communication disorders.

*A-F Grading*

*Effective term: Fall 2015*

## **COLLEGE OF ARTS AND SCIENCES: Psychology**

### **PSY 663 - Professional Clinical Psychology**

3 credits

The professional role of the clinical psychologist will be examined with an emphasis on legal, ethical, and professional issues.

**Prerequisites:** Consent of instructor.

*Change title to:*

### **PSY 663 - Ethics and Professional Issues**

3 credits

The professional role of the clinical psychologist will be examined with an emphasis on legal, ethical, and professional issues.

**Prerequisites:** Consent of instructor.

*A-F Grading*

*Effective term: Fall 2015*

### **PSY 671 - Clinical Supervision**

3 credits

This course covers clinical supervision and consultation. Course work is integrated with opportunities to supervise under faculty direction.

**Prerequisites:** Consent of instructor.

**Note:** Some clinical courses involving practical work are open only to students in clinical psychology.

*Change title and remove prerequisites to:*

### **PSY 671 - Clinical Supervision and Consultation**

3 credits

This course covers models and methods of clinical supervision as well as an overview of the theory and practice of mental health, behavioral, and organizational consultation and collaboration. Course work is integrated with opportunities to supervise under faculty direction.

**Note:** Some clinical courses involving practical work are open only to students in clinical psychology.

*A-F Grading*

*Effective term: Fall 2015*

## **COURSE BANKING**

## **BAYH COLLEGE OF EDUCATION: Curriculum, Instruction, and Media Technology**

### **CIMT 641 - Networking and Facilities**

3 credits

This course covers the management, design, and support of educational facilities as well as the networking (infrastructure) that ties the learning environment together. The course focuses on the learning space as a change agent for the learning environment and how student and faculty practice impact learning space design and support.

*A-F Grading*

*Effective term: Spring 2015*