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4-15-2016

SR-15-16-37 CC

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CURRICULUM COMMITTEE
RECOMMENDATION

SR-15-16-37 CC

NOTE: The curricular form for each item listed may be accessed at www.marshall.edu/senate/ucc. Click the UCC Agendas/Minutes link; click the link for the March 11, 2016 meeting date; click the link in the Description column to open a particular item.

Recommends approval of the listed UNDERGRADUATE COURSE CHANGES in the following colleges and/or schools/program: COLLEGE OF ARTS & MEDIA, COLLEGE OF HEALTH PROFESSIONS, COLLEGE OF LIBERAL ARTS, and COLLEGE OF SCIENCE.

- **COLLEGE OF ARTS & MEDIA:**

  *Current Course Title: Jazz Styles   MUS 307   2 credit hours
  *Change in Course Number to: MUS 413
  *Rationale: The change of course number is necessary to combine this undergraduate offering with a proposed graduate offering of the same course, only at an advanced level with additional requirements. There will be no changes in curriculum. The number change is strictly editorial.

  *Current Course Title: Jazz Pedagogy and Conducting   MUS 411   3 credit hours
  *Change in Course Number to: MUS 412
  *Rationale: The change of course number is necessary to combine this undergraduate offering with a proposed graduate offering of the same course, only at an advanced level with additional requirements. There will be no changes in curriculum. The number change is strictly editorial.

- **COLLEGE OF HEALTH PROFESSIONS:**

  *Current Course Title: Practicum in Sport Management and Marketing   ESS 290 3 credit hours
  *Change in Course Title to: Sport Management Practicum
  *Change in Catalog Description to: Supervised experience with classroom setting that emphasizes a variety of skills and exploration of career opportunities in Sport Management (PR: ESS 250; CR: Admission to Sport Management Program
  *Rationale: The rationale for the changes of the course title and course description is so they are more in line with the new B. A. Sport Management degree program and curriculum requirement of the accreditation body (COSMA).

- **COLLEGE OF LIBERAL ARTS:**

  *Current Course Title: Weather Analysis   GEO 360   3 credit hours
  *Change in Credit Hours to: 4 credit hours
  *Rationale: The course is introducing a lab component consisting of 1 credit hour. This is consistent with the earth/natural science curriculum as courses typically have a lecture/lab format.

The lab manual intended for use will be "Investigations Manual for Weather Studies" by the American Meteorological Society.

Topics covered in the lab include the following:
Air Pressure and Wind
Clouds and Temperature
Heating and Cooling the Atmosphere
Weather Satellite Imagery
Doppler Radar
Surface Weather Maps
Upper Air Weather Maps
Precipitation Patterns
Weather Instruments and Observations
Weather Forecasts

*Current Course Title: Climatology   GEO 425   3 credit hours
*Change in Credit Hours to: 4 credit hours
*Rationale: The course is introducing a lab component consisting of 1 credit hour. This is consistent with the earth/natural science curriculum as courses typically have a lecture/lab format.

The lab manual intended for use will be "Investigations Manual for Climate Studies" by the American Meteorological Society.

Topics covered in the lab include the following:
Climate Variability and Change
Solar Energy and Earth's Climate System
Water, Heat, and Heat Transfer
Global Water Cycle
Coastal Upwelling and Coastal Climates
Snow and Ice Climate Feedback
Global Atmospheric Circulation
Wave Cyclones and Storm Tracks
Climate Mitigation and Adaptation Strategies
Climate Classification
Climate Forecasting

*Current Course Title: GIS Vector Analysis   GEO 429   3 credit hours
*Change in Course Title to: Princ of GIS 2-Vector Analysis
*Change in Credit Hours to: 4 credit hours
*Change in Catalog Description to: Continuation of GEO 426 Principles of GIS, including additional principles like data management, cartographic design, and geocoding; and vector analyses like spatial patterns analysis, spatial autocorrelation, and network analysis.
*Rationale: Change in credit hours reflects the lab/lecture structure of the course, similar to other GIScience courses such as GEO426 or BSC410, which are four-credit courses; and addition of material, specifically a semester project (see new material highlighted in attached syllabus). Change in title reflects the change in the course's sequence and place in the curriculum. Course description better reflects the change in emphasis and material considered.

*Current Course Title: GIS-Raster Analysis   GEO 430   3 credit hours
*Change in Credit Hours to: 4 credit hours
*Rationale: Change in credit hours:
Similar to GEO426, PS410, PS411, and equivalent GIS and remote sensing courses at other institutions, this course has a large practical component (lab) and enough contents to list it as a 4-credit course with three credits of lecture and one lab credit (see Projects in attached syllabus). It is time to count the lab component properly. This change will better reflect the nature of the course and be comparable to this type of course at other institutions as well. Currently this is a lecture course where the students complete the projects on their own time. With the new fourth credit a lab can be scheduled where students will receive in-class guidance for the projects.

*Current Course Title: Spatial Statistics   GEO 440   3 credit hours
*Change in Course Title to: Spatial Statistics and GIS
*Change in Credit Hours to: 4 credit hours
*Change in Catalog Description to: Statistical methods applied to problem solving in geography and using GIS for display and analysis. Primary focus on descriptive and inferential spatial statistics, mapping, and spatial analysis of data.
*Rationale: Title and description changes better describe the material added to the course. Change in credit hours reflects the lecture/lab format and Geographic Information Systems (GIS) lab material added to the course (see material highlighted in attached syllabus).

*Current Course Title: Senior Capstone Research   GEO 499   1-3 credit hours
*Change in Course Title to: Senior Capstone II
*Change in Catalog Description to: This senior capstone course combines research methods, data collection, and analysis to produce original research on questions and problems in geography. Part II.
*Rationale: This course has been taught over two semesters for several years now. Students registered for two credits in the fall and one more in the spring. The tasks in this capstone course have expanded over the last several years with a stronger emphasis on professional presentation of the work added in the second semester and four credits total would be more appropriate considering the extra work load. Many of our students join us later in their studies when they are already juniors or seniors and it is not always clear to them that the capstone cannot be taken in a single semester. In order to clarify this, the current course that was spread over two semesters and therefore is listed with a variable number of credits in the catalog, will be split into two courses with distinctly different numbers and similar titles. The first, GEO498 - Senior Capstone I, will be created, and will be listed as a prerequisite for the second (GEO499 - Senior Capstone II). Both will be listed as required. I interviewed current capstone students about this plan and they agreed that this will make it clearer to incoming students and easier for them to plan the sequence. An application for the addition of GEO498 "Senior Capstone I" has been submitted along with this application as well.

Course Title: "Senior Capstone II" will clearly label the original course as the second part of the capstone requirement.

Catalog Description: The only change in the description is the addition of "Part II" and again simply clarifies that this is the second part in the capstone sequence.

- **COLLEGE OF SCIENCE:**

  *Current Course Title: Programming Practicum   IST 163   3 credit hours
  *Change in Course Title to: Intro to Programming: C++
  *Change in Alpha Designator to: CIT
  *Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 163 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course title, reflecting the language used in the course would help our graduates on their transcripts.

  *Current Course Title: Data Structures   IST 236   3 credit hours
  *Change in Alpha Designator to: CIT
  *Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 236 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT.

  *Current Course Title: Algorithms   IST 238   3 credit hours
  *Change in Alpha Designator to: CIT
  *Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 238 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT.

  *Current Course Title: Instrumentation I   IST 260   3 credit hours
  *Change in Course Title to: Instrumentation
  *Change in Alpha Designator to: CIT
  *Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 260 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course title would be more appropriate. Instrumentation I was a holdover from when the department offered multiple instrumentation courses, but now only offers this one.

  *Current Course Title: Web Programming   IST 263   3 credit hours
  *Change in Course Title to: Web Programming I
  *Change in Alpha Designator to: CIT

*Change in Catalog Description to: This is the first semester of a two course sequence on Web programming. This course focuses on web development standards. Topics covered include current HTML standards, CSS, and JavaScript.

*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 263 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While creating our new curriculum, we decided to split our web development course into 2 courses so that we could pack advanced content into the second course (CIT 313). This resulted in requiring us to change the title and modify slightly the description of the current course.

*Current Course Title: C# NET Programming   IST 303   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Course Number to: 265
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 303 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. The course will be more appropriate at the 2xx level than at the 3xx level as it provides an introduction to the C# programming language.

*Current Course Title: Software Engineering I   IST 332   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Catalog Description to: First course in a two course sequence. Introduces students to the processes of software systems development. Course covers project and management, software quality, configuration issues, and development tools.
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 332 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. The change in description is cosmetic, noting that the course is part of a two course sequence.

*Current Course Title: Software Engineering II   IST 333   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Catalog Description to: Second course in a two course sequence. Covers the system development life cycle: requirement analysis and specifications; design methods; system implementation and integration; testing; and reuse issues. Team project participation.
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 333 will be moved to the Computer and Information Technology Department, thus changing the designator

from IST to CIT. The change in description is cosmetic, noting that the course is part of a two course sequence and removing specific reference to IST designator.

*Current Course Title: Game Development I: 2D   IST 360   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Course Number to: 340
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 360 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course number would be appropriate to better sequence our gaming courses.

*Current Course Title: Network Protocols   IST 362   3 credit hours
*Change in Course Title to: Network Protocols and Admin
*Change in Alpha Designator to: CIT
*Change in Course Number to: 352
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 362 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course title and number would be appropriate to better sequence our courses.

*Current Course Title: Database Management   IST 365   3 credit hours
*Change in Alpha Designator to: CIT
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 365 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT.

*Current Course Title: DB Design/Reporting   IST 366   3 credit hours
*Change in Alpha Designator to: CIT
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 366 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT.

*Current Course Title: CAD & Terra Modeling   IST 428   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Course Number to: 338

*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 428 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course number would be appropriate to better sequence our courses.

*Current Course Title: Electronic Commerce   IST 430   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Course Number to: 410
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 430 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course number would be appropriate to better sequence our web programming courses.

*Current Course Title: Advanced Web Programming   IST 436   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Course Number to: 416
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 436 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course number would be appropriate to better sequence our web programming courses.

*Current Course Title: Computer Graphics for Gaming   IST 438   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Course Number to: 440
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 438 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course number would be appropriate to better sequence our gaming courses.

*Current Course Title: Game Development II: 3D   IST 439   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Course Number to: 441
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 439 will be

moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course number would be appropriate to better sequence our gaming courses.

*Current Course Title: Game Development III: AI   IST 460   3 credit hours
*Change in Alpha Designator to: CIT
*Change in Course Number to: 443
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 460 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT. While making this change, we also thought that the new course number would be appropriate to better sequence our gaming courses.

*Current Course Title: Database Programming   IST 466   3 credit hours
*Change in Alpha Designator to: CIT
*Rationale: Integrated Science and Technology is comprised of 6 majors, and we have basically run out of course numbers to use. In conjunction with a strategic reorganization of the College of Science, the Integrated Science and Technology Department will be split into individual departments and most of the IST courses will be taking on new designators. IST 466 will be moved to the Computer and Information Technology Department, thus changing the designator from IST to CIT.

*Current Course Title: Biomedical Physics   PHY 350   4 credit hours
*Change in Course Title to: Biological Physics
*Change in Credit Hours to: 3
*Change in Catalog Description to: Physical principles underlying the mechanisms by which living organisms survive, adapt, and grow. Will enhance writing skills and strategies. 2 lec- 2 lab. (PR: PHY 203 or 213, and PHY 204)
*Rationale: The name change is to better reflect the new course content, which now will include no medical topics; they will be in a separate course (PHY 360). Fewer lecture hours are needed to cover fewer topics; the increased hours per topic will allow more thorough treatment at a slower pace. The new course description will clearly distinguish the PHY 350 subject-matter focus on how physics principles are applied to model and explain processes of biological systems, like musculoskeletal, circulatory, neural, sensory, etc., while PHY 360 will focus on how physics can be applied to devise methods for diagnostic and treatment. Splitting the biological aspects from the instrumental aspects reflects the two demographic groups who typically enroll in this course.

FACULTY SENATE CHAIR:

APPROVED BY THE
FACULTY SENATE: _Larry Stickler_ DATE: 4/15/2016

DISAPPROVED BY THE
FACULTY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED: _Jerome G. Gilbert_ DATE: 4-26-16

DISAPPROVED: _____ DATE: _____