Members present: Tim Scott (Chair), College of Science; James Herman (Vice Chair), College of Veterinary Medicine and Biomedical Sciences; Bob Knight, College of Agriculture and Life Sciences; Jon Jasperson, Mays Business School; Chris Houser, College of Geosciences; Christine Bergeron, College of Education and Human Development; Prasad Enjeti, Dwight Look College of Engineering; Steve Oberhelman, College of Liberal Arts; Jennifer Ross, School of Public Health; Glenn Jones, Texas A&M University at Galveston; Stephanie Graves, Texas A&M University Libraries; Kristin Harper (for Ann Kenimer), Undergraduate Studies; John Louis Bolch, Office of the Registrar.

Guests: Ed Rister, Department of Agricultural Economics; David Forrest, Department of Animal Science; Craig Coates and Ann Pool, Department of Entomology; Tim Jacobs, Department of Mechanical Engineering; Priscilla McLeroy, Department of Petroleum Engineering; Susan Scott, Department of Recreation, Park and Tourism Sciences; Nick Piwonka and Jake Williams, Office of the Registrar.

The Undergraduate Curriculum Committee recommends approval of the following:

1. The minutes of the August 7, 2015 meeting.

2. New Courses

   **AGEC 324. Agribusiness Entrepreneurship – Budgeting. (2-2). Credit 3.** Case study approach to demonstrate a process for evaluating the economic feasibility of a single-enterprise rural or metropolitan business venture; relevant production, marketing and financing costs, in combination with capital ownership and overhead costs; computer spreadsheets including attention to deterministic sensitivity analyses; computer capabilities are essential. Prerequisites: AGEC 105 or ECON 202; ACCT 209 or ACCT 210 or ACCT 229 or ACCT 230 or AGEC 330 or FINC 341 or FINC 409; junior or senior classification or approval of instructor.

   **ANSC 211. Equine Industry and Career Preparation. (2-0). Credit 2.** Identify opportunities and skill sets required to pursue a career in the equine industry; development of resume, communication, professional etiquette and interview skills.

   **ANTH 436. Ancient Egypt. (3-0). Credit 3.** Archaeology and history of ancient Egypt from earliest times to the end of the New Kingdom period. Prerequisite: Junior or senior classification or approval of instructor. Cross-listed with RELS 436.

   **ENTO 321. Beekeeping. (0-3). Credit 1.** Basic Knowledge and techniques used in apiculture; tools and knowledge needed to keep bees responsibly and productively. Prerequisites: ENTO 320 or concurrent enrollment, junior or senior classification or approval of instructor.

   **ESSM 324. Forest Measurements. (0-4). Credit 2.** Measures and measurement of the dimensions and attributes of forested areas including the diameters, heights, volume and biomass of trees within a well-defined area; tools used for forest measurement; the conduct of forest inventories; summary measures and reports of inventory results; remote sensing and related technologies that assist forest measurements. Prerequisites: ESSM 313 and ESSM 319 or concurrent enrollment; junior or senior classification.

   **FILM 445. Rhetoric of Television and Film. (3-0). Credit 3.** Critical analysis of television and film; close readings of such mediated texts; special attention to writing television and film criticism. Prerequisite: Junior or senior classification. Cross-listed with COMM 435.
MEEN 439. Solar Energy Engineering. (3-0). Credit 3. Solar energy; solar angles and radiation; solar thermal systems; solar water heating and space heating; concentrated solar power; energy storage; solar photovoltaics; solar cell manufacturing; other solar energy technologies. Prerequisite: MEEN 315.

MEEN 469. Alternative Energy Conversion. (3-0). Credit 3. Design and analysis of alternative energy conversion processes and systems that are based on converting energy directly (e.g., fuel cells, photovoltaics), utilizing non-combustible heat sources (e.g., geothermal, ocean gradients, solar and nuclear fission and fusion) and obtaining energy from the environment (e.g., wind, hydroelectric, ocean tides and waves). Prerequisite: MEEN 315.

PETE 337. Junior Student Paper Contest. No Credit. Presentation of a technical proposal on a subject related to petroleum technology judged by petroleum professionals at the junior level departmental student paper contest. Must be taken on a satisfactory/unsatisfactory basis. Prerequisite: PETE 335.

PETE 437. Senior Student Paper Contest. No credit. Presentation of a technical petroleum engineering topic judged by petroleum professionals at the senior level departmental student paper contest. Must be taken on a satisfactory/unsatisfactory basis. Prerequisite: PETE 337; Corequisite: PETE 435.

RELS 436. Ancient Egypt. (3-0). Credit 3. Archaeology and history of ancient Egypt from earliest times to the end of the New Kingdom period. Prerequisite: Junior or senior classification or approval of instructor. Cross-listed with ANTH 436.

3. Withdrawal of Courses

ESSM 460. Spatial Data Acquisition with Field Methods.

4. Change in Courses

COMM 435. Rhetoric of Television and Film.

Prerequisites
From: None.
To: Junior or senior classification.

Cross-listing
From: None.
To: FILM 445.

ENTO 291. Research.

Variable credit hours
From: Credit 1 to 4.
To: Credit 0 to 4.

ENTO 484. Professional Internship.

Variable credit hours
From: Credit 1 to 4.
To: Credit 0 to 4.
ENTO 491. Research.

Variable credit hours
   From: Credit 1 to 4.
   To: Credit 0 to 4.


Prerequisites
   From: ESSM 314, junior or senior classification or approval of instructor.
   To: AGEC 105 or ECON 202, ESSM 314, ESSM 317; junior or senior classification or approval of instructor.


Prerequisites
   From: RENR 205 and ESSM 320 or ESSM 420; junior or senior classification.
   To: RENR 205, ESSM 320, ESSM 420; junior or senior classification.

ESSM 459. Spatial Databases and Programming.

Course title
   From: Spatial Databases and Programming.
   To: Programming for Spatial Data Applications.

Course description and prerequisites
   From: Computational tools for creating new data, sharing, integrating that data with other databases; conducting analyses and interpretation of information ranging from spreadsheets to advanced scientific workflow processing systems; tools to create higher quality, more useful data. Prerequisite: Junior or senior classification or approval of instructor.
   To: Programming for spatial data applications in general and for natural resources application in particular; basic programming concepts and constructs for the creation and manipulation of spatial data; automating of processes; programming behind spreadsheet and GIS applications. Prerequisites: ESSM 351 or equivalent, junior or senior classification or approval of instructor.

ESSM 464. Spatial Project Management.

Prerequisites
   From: A minimum of two GIS and/or remote sensing courses at 300 or 400-level, junior or senior classification or approval of instructor.
   To: ESSM 351 and ESSM 444, junior or senior classification or approval of instructor.

FIVS 291. Research.

Variable credit hours
   From: Credit 1 to 4.
   To: Credit 0 to 4.
FIVS 484. Professional Internship.

Variable credit hours
From: Credit 1 to 4.
To: Credit 0 to 4.

FIVS 491. Research.

Variable credit hours
From: Credit 1 to 4.
To: Credit 0 to 4.

NUTR 430. Community Nutrition.

Prerequisites
From: NUTR 203.
To: NUTR 203; NUTR 301; junior or senior classification.

OCNG 410. Introduction to Physical Oceanography.

Course title
From: Introduction to Physical Oceanography.
To: Physical Oceanography.

Prerequisites
From: MATH 308; junior or senior classification.
To: MATH 152; junior or senior classification.

OCNG 420. Introduction to Biological Oceanography.

Course title
From: Introduction to Biological Oceanography.
To: Biological Oceanography.

OCNG 430. Introduction to Geological Oceanography.

Course title
From: Introduction to Geological Oceanography.
To: Geological Oceanography.

OCNG 440. Introduction to Chemical Oceanography.

Course title
From: Introduction to Chemical Oceanography.
To: Chemical Oceanography.
PSYC 485. Directed Studies

Course description and prerequisites
From: Directed readings or research problems in selected areas designed to supplement existing course offerings. Individual report required. Prerequisites: 12 hours of psychology including completion of PSYC 204; GPR of 2.5 or better in all psychology courses; approval of instructor; major in psychology.
To: Directed readings or research problems in selected areas designed to supplement existing course offerings. May be repeated for credit. Prerequisite: Approval of instructor.

PSYC 491. Research.

Course description and prerequisites
From: Research conducted under the supervision of a chosen faculty member in the department of psychology; involves discussion and weekly presentation of student research projects. May be repeated for credit. Prerequisites: PSYC 484 or PSYC 485; junior or senior classification.
To: Research conducted under the supervision of a chosen faculty member in the department of psychology; involves discussion and presentation of student research projects. May be repeated for credit. Prerequisites: PSYC 484 or PSYC 485; approval of instructor.

RENR 410. Ecosystem Management.

Prerequisites
From: Senior classification or approval of instructor.
To: RENR 205, senior classification or approval of instructor.

5. Change in Curriculum

College of Agriculture and Life Sciences
Department of Ecosystem Science and Management
BS in Forestry
Minor in Forestry

Department of Entomology
Minor in Entomology

6. Texas A&M University at Galveston

New Course

MARS 408. Estuarine and Coastal Hydrodynamics. (3-0). Credit 3. Physical processes in estuarine and coastal environments in various time scales: turbulent, tidal and residual (subtidal); study of salts, suspended solids, nutrients and heat affected by water movement; physical, biogeochemical processes and mass transport. Prerequisites: MATH 251, PHYS 218, junior or senior classification or approval of instructor.
Change in Curricula

**Texas A&M University at Galveston**
Department of Marine Biology  
BS in Marine Biology

Department of Maritime Biology  
BS in Marine Fisheries

Special Consideration

**Texas A&M University at Galveston**
Department of Liberal Studies  
Minor in Maritime Studies  
Request for a new minor

7. Special Consideration

**College of Liberal Arts**
Department of Performance Studies  
Minor in Performance Studies  
Request for a new minor

Minor in Music  
Minor in Theater Arts  
Request to discontinue minors

8. Change in Curriculum – from August 2015 UCC Meeting

**Dwight Look College of Engineering**
Department of Petroleum Engineering  
BS in Petroleum Engineering

9. Tabled Items

New Courses

AGOEC 223 - A) missing make up policy; B) grading policy does not show how extra work by Honors students fits in grade percentages *(Jasperson)*  
AGOEC 423 - A) missing make up policy; B) grading policy does not show how extra work by Honors students fits in grade percentages *(Jasperson)*; grading should be more rigorous than lower level course *(Jones)*  
IDIS 450 - does neo email still exist? *(Bergeron)*; due to overlapping domain content should have a letter of support from Department of Information and Operations Management and from Department of Statistics *(Jasperson)*; There is an error for the grade of F in the Grading Structure *(Kracht)*
Special Consideration

College of Agriculture and Life Sciences
Department of Agricultural Economics
Minor in Agribusiness Entrepreneurship
Request for a new minor

10. Other Business

T.Scott gave overview of the CourseLeaf CIM meeting he attended.

N.Piwonka gave a brief overview of the process for shortened courses and to his knowledge, there is no approval required as indicated in the policy.