Faculty Council Meeting November 5, 2020
3:30 – 5:30 pm

Zoom Meeting: https://slu.zoom.us/j/99012623942

MINUTES

1. Ken Oliff and Michele Sabick
   Presentation on research, areas of impact and centers of excellence (see appendix)

2. Approve minutes from previous meeting  APPROVED

3. Dean’s Comments (See Appendix)

4. Committee Reports:
   a. Academic Affairs – Kathryn Kuhn (no report)
   b. Academic Honesty – Tony Hasler
      Moving ahead with reconsidering the academic honesty policy in CAS
      There’s a university-level committee doing something similar
   c. Board of Graduate Education – Dan Warren (no report)
   d. Motion from the Core Curriculum Committee rivony
      The Core Curriculum Committee moves to approve the course HIST 3420 'The Atlantic World' to fulfill the Global Citizenship requirement.
      MOTION PASSED
   e. Curriculum Committee – Mike May  MOTION PASSED

Reminder: early February approvals necessary to be included in 21-22 Catalog

Background files at
https://drive.google.com/drive/folders/1oMsAF3pyxsCYAErG_o1Ky8ecGzPKbQ3V?usp=sharing

Curriculum Committee Motion for November.

On behalf of the committee I move that the council approve the following additions, deletions, and changes that were approved at the October meeting of the undergraduate curriculum committee.
From the Department of Sociology and Anthropology
Change of Course Description
Quantitative Research Methods: Soc 4015 new description

From the Department of Earth and Atmospheric Studies
New course in GIS 8:15
GIS 4080 Digital Cartography and Geovisualization

New numbers or names for courses
EAS-1010  Earth System I - The Solid Earth
  from EAS-1430  Introduction to the Solid Earth
EAS-1020  Earth's Environment I Lab
  from EAS-1435  Introduction to the Solid Earth Lab
EAS-1050  Introduction to Oceanography
  from EAS-1450  Introduction to Oceanography
EAS-1420  Foundations of Atmospheric Science
  from EAS-1420  Introduction to Atmospheric Science
EAS-2210  Mineralogy Lab
  from EAS-2205  Mineralogy Lab
EAS-2440  Atmospheric Processes and Systems
  from EAS-2440  Atmospheric Processes
EAS-2530  Fundamentals of the Climate System
  from EAS-2530  Climate and Climate Change
EAS-3150  Broadcast Meteorology I
  from EAS-3150  Broadcast Meteorology
EAS-3330  Physical Meteorology I
  from EAS-3330  Atmospheric Thermodynamics
EAS-3340  Physical Meteorology II
  from EAS-3340  Physical Meteorology
EAS-4050  Petrology
  from EAS-3350  Petrology
EAS-4060  Petrology Lab
  from EAS-3355  Petrology Lab
EAS-4110  Surface Processes Lab
  From EAS-4105  Surface Processes Lab
EAS-4310  Structural Geology Lab
  From EAS-4305  Structural Geology Lab
EAS-4780  COMET Modules
  From EAS-3780 COMET Modules

Change in credit hours
EAS -2400  Field Techniques in Geoscience:
  Changed from 2 to 3 credits.
EAS -3900 SLU TV Practicum:
  Changed from 1-3 credits to only 1 credit.

Courses to be deleted
EAS-1010 Earth Systems I-The Solid Earth
EAS-1020 Earth's Environment I Lab
EAS-1040 Earth's Environment II Lab
EAS-1180 Physical Geography Lab
EAS-1320 Natural Disasters
EAS-1330 Drifting Continents
EAS-1360 Beauty of the Atmosphere
EAS-1370 Meteorological Aspects of Emergency Response
EAS-1400 Energy Resources for a Sustainable Future
EAS-2110 Meteorological Analysis
EAS-2600 Environmental Science Seminar Series
EAS-3160 Broadcast Meteorology II
EAS-3250 Global Change
EAS-3310 Paleontology
EAS-4150 Instrumentation and Remote Sensing
EAS-4230 Micrometeorology
EAS-4500 Scientific Communications
EAS-4510 Seismic Exploration
EAS-4520 Seismic Exploration Lab
EAS-3400 Soils - Formation, Properties, Identification and Current Issues

Courses to be removed because they duplicate a GIS course
EAS-2170 Geographic Information System in Civil Engineering
EAS-4170 Introduction to GIS
EAS-4180 Intermediate GIS
EAS-4190 Geospatial Methods in Environmental Studies
EAS-4480 Introduction to Remote Sensing
EAS-4490 Microwave Remote Sensing: SAR Principles, Data Processing and Applications
EAS-4560 Interferometric Synthetic Aperture Radar to GIS 4110 (They thought this had already happened).

Course to be deleted
GIS-2170 Geographic Information System in Civil Engineering

Prerequisite changes
EAS 1420 Introduction to Atmospheric Science
EAS 1435 Introduction to the Solid Earth Lab
EAS 2200 Mineralogy
EAS 2400 Field Techniques in the Geosciences
EAS 2440 Atmospheric Processes
EAS 2450 Communicating in Science
EAS 2530 Climate and Climate Change
EAS 3100 Environmental Issues
EAS 3150 Broadcast Meteorology
EAS 3330 Atmospheric Thermodynamics
EAS 3340 Physical Meteorology
EAS 3500 Numerical Modeling Applications
EAS 3350 Petrology
EAS 3355 Petrology Lab
EAS 3780 COMET Modules
EAS 3900 SLU TV Practicum
EAS 4030 Elements of Air Pollution
EAS 4100 Surface Processes
EAS 4105 Surface Processes Lab
EAS 4140 Soil Science
EAS 4200 Synoptic Meteorology I
EAS 4220 Synoptic Meteorology II
EAS 4280 Environmental Geochemistry
EAS 4300 Structural Geology
EAS 4270 Earth Dynamics
EAS 4410 Hydrology
EAS 4440 Principles of Dynamic Meteorology I
EAS 4450 Principles of Dynamic Meteorology II
EAS 4600 Introduction to the Physics of the Solid Earth
EAS 4620 Introduction to Earthquake Seismology
EAS 4680 Mesoscale Meteorology
EAS 4720 Seismological Instrumentation

f. Nominations Committee – Fenglian Xu (no report)
g. Technology Committee – Jason Fritts (no report)
h. Rank, Tenure and Promotion Committee (no report)

5. CAS Reorganization 5:00 pm

Discussion of whether and how FC should discuss CAS reorganization going forward, and whether to sponsor some sort of survey.

6. Representatives from other University bodies 5:05 pm
7. Old Business

8. New Business

Motion to Adjourn 4:45pm
Dean’s Report

- **APRC Update**: Phase 2 responses submitted; under review by APRC subcommittees
- **University Budget process** has begun; no new funding for next year; all “new” positions must come from reallocated college funds
  - Reminder: we are operating on a ~$1.5m deficit this FY
- **New Jesuit Hiring Policy**: approved by CADD 10/30/2020
- **Development Opportunities**
  - Partnering with Parks Development office to seek STEM funding for shared areas of interest
  - Center for Humanities
- **Reminder**: Town Hall with President Pestello and Provost Lewis, Weds 11/11, 3:30 p.m.
SLU RESEARCH

COLLEGE OF ARTS & SCIENCES –
FALL 2020 RESEARCH UPDATE
SLU RESEARCH VISION

- **GROW SLU** into a preeminent Jesuit research university
  - Carnegie 1 Status
  - $100M in annual research expenditures
  - Top Ranked Research Strengths
  - Eminent Scholars and Scientists
  - Leader in Innovation
SLU RESEARCH STRATEGY

- Achieve and sustain **annual research expenditure growth** that places SLU among the fastest growing universities in the country
- Establish eminence in strategic, university-wide **research priority areas**
- Raise the **profile and reputation** of SLU as a world-class research university in the St. Louis area and around the world
- Recruit and retain **world-class research leaders** and provide significant investments in their work
- Leverage the Sinquefields’ $50M gift to increase **federal, industry, and philanthropic funding** for research done at SLU
RESEARCH EXPENDITURES: NON-SOM

EXPLOSIVE GROWTH OUTSIDE SCHOOL OF MEDICINE
RESEARCH EXPENDITURES: ARTS & SCIENCES

ARTS & SCIENCES HAS NEARLY DOUBLED IN FOUR YEARS

CAGR +18%

+27%
RESEARCH EXPENDITURES: BROAD FIELD

Social Science
Humanities
Science

2016  3,855  3,021
     138  696

2017  5,471  3,702
     369  696

2018  6,744  4,058
     274  779

2019  5,854  4,769
     306  779

2020  7,455  6,601
     353  501

+119%

BIGGEST GROWTH IN SCIENCE FIELDS
## RESEARCH EXPENDITURES: BY DEPT

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<th>2017</th>
<th>2018</th>
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**DEPT BREAKDOWN**

CAGR +18%
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Detail by Department
• Leonard McKinnis, Theological Studies, and Kate Moran, American Studies
  • Both won Louisville Institute grants of $40K to advance their monograph projects this academic year.

• Julia Lieberman, Languages Literatures and Cultures
  • Won a William J. Fulbright Grant to Portugal

• Kira Banks, Psychology
  • Won grants from the Fahs-Beck Foundation, Deaconess Foundation, and Missouri Foundation for Health totaling over $275,000 to support the Shut It Down initiative to end the school-to-prison pipeline for kids in St. Louis City schools.

• 7 faculty from 4 different departments submitted NEH Fellowship proposals
SELECTED SCHOLARLY ACCOMPLISHMENTS

• Doug Boin, History
  • Alaric the Goth: An Outsider’s History of the Fall of Rome, a new perspective on the Goths and the story of the fall of Rome, with W. W. Norton & Company

• Lorri Glover, History
  • Published biography of Eliza Lucas Pinckney, a woman of the Revolutionary War period, with Yale University Press

• Scott Berman, Philosophy
  • Published Platonism and the Objects of Science, with Bloomsbury Press
The first round awards administered by the Scholarship Research Council totaled $27,375 – for completing monographs and articles, organizing workshops/conference, submitting grant proposals, etc.

- Leveraged matching funds of $43,700 in external funding

Following the first group of awards, the Fund has made over $50K in additional awards leveraging over $130K in matching funds to 20+ faculty members
EMINENCE IN RESEARCH PRIORITY AREAS

- **5 Big Ideas launched**
  - Geospatial Institute
  - Water Institute
  - Drug & Biotherapeutic Innovation
  - Institute for Healing Justice and Equity
  - Advanced Health Data Research

- Institute for Vaccine Science & Policy
- SLU Poll
- Center for Additive Manufacturing
AREAS OF FUTURE EMINENCE

- Neuroscience
- Artificial Intelligence
- Humanities
- People and Technology Horizon (PATH@SLU)
- Applied Research in Interdisciplinary STEM Education (ARISE)
- Human Resiliency
SLU RESEARCH: CURRENT YEAR PRIORITIES

- Provost / President
  - Research Productivity / Analytics
  - Areas of Impact / Centers of Excellence
- RI Fellows - Existing Faculty
- RI Fellows - New Recruits
- Regional Leadership: National Center for Location Sciences
- Innovation / Industry
- SOM Research Growth Plan
Proposed Areas of Impact

Improving Health & Wellbeing: We provide compassionate care for the whole person and enable humanity to flourish through the development of new prevention and treatment strategies.

Example Activities: chronic pain, systems biology, happiness studies, health care ethics, health law, drug discovery, medical humanities, tissue engineering, social determinants of health, vaccine development

Understanding & Engaging the World: We reflect on our shared cultures, histories, faiths, and world views to pursue understanding and social justice for the common good.

Example Activities: African politics, Catholic intellectual heritage, ethics, global cultures & histories, Jesuit and Catholic studies, medieval and Renaissance culture, the nature of God, history of theology

Harnessing Data & Technology: We improve life through technology while developing a deep appreciation for the people and communities that will be affected by these advances.

Example Activities: artificial intelligence, cybersecurity, digital humanities, geospatial technology, health informatics, supply chain management, social media and identity, additive manufacturing

Cultivating Vibrant Urban Communities: We engage with and empower our regional and global community to educate, support, advocate, and heal.

Example Activities: art activism, communicable diseases, critical race studies, emergency management, healing justice and equity, health disparities, jail re-entry prevention, urban education policy

Caring for Our Shared Home: We care for our shared home through sustainable practices, policy changes, political action, technology, and education.

Example Activities: animal studies, climate change, ecocriticism, insect communication, microplastics, origin of life, sustainable food supplies, urban pollinators, water and the built environment