2 February 2021

TO: Faculty Senate

FROM: Paul Loikith, Chair, Graduate Council

RE: March 2021 Consent Agenda

The following proposals have been approved by the Graduate Council and are recommended for approval by the Faculty Senate.

You may read the full text for any proposal, as well as Faculty Budget Committee comments on new and change-to-existing program proposals, at the [Online Curriculum Management System (OCMS) Curriculum Dashboard](#).

School of Business

Changes to Existing Courses

E.1.a.1
- *Mgmt 521 Design Thinking for Social Innovation, 4 credits – change description

E.1.a.2
- *Mgmt 521S Design Thinking for Social Innovation, 4 credits – change description

E.1.a.3
- *Mgmt 522S Money Matters for Social Innovation, 4 credits – change description

E.1.a.4
- *Mgmt 523S Storytelling and Impact Measurement for Social Innovation, 4 credits – change description

College of Education

Changes to Existing Courses

E.1.a.5
- ELP 517 Ecological and Cultural Foundations of Learning, 4 credits – change course description

E.1.a.6
- ELP 519 Sustainability Education, 4 credits – change course description

E.1.a.7
- ELP 548 Advanced Global Political Ecology, 4 credits – change title to Global Political Ecology and change description

E.1.a.8
- ELP 550 Advanced Leadership for Sustainability, 4 credits – change title to Leadership for Sustainability and change description

---

* This course is part of a dual-level (400/500) course. For any revisions associated with the 400-level section please refer to the Undergraduate Curriculum Committee consent agenda memo.

Maseeh College of Engineering and Computer Science

New Course

E.1.a.9

- *CS 589 Blockchain Development & Security, 3 credits
  Overview of blockchain systems, how they are built, and how they can be exploited.
  Students will get hands-on experience working with public blockchains as well as build
  and deploy permissioned blockchains. They will then examine security vulnerabilities in
  blockchain systems and how they may be automatically exploited.

College of Liberal Arts and Sciences

New Courses

E.1.a.10

- *Eng 529 Advanced Topics in Science Fiction, 4 credits
  Study of selected topics in science fiction and speculative fiction. Topics may include the
  history of the field and its various movements; single-author studies; themes of
  sociopolitical significance; or theoretical topics. Course may be repeated for up to 8
  credits with different topics. Prerequisite: Graduate standing.

E.1.a.11

- *Geog 572 Critical GIS, 2 credits
  Explores the connections between GIS and the society it represents and serves, and the
  hidden implications embedded within GIS technology. Investigates whether GIS can be
  developed to reflect more complex perceptions of space and place that are not based on
  traditional mapping forms. Topics also include the implications of ongoing technological
  change, the democratization of mapping, and the ethics of GIS practice as well as the
  accessibility of GIS data and tools to all. Prerequisite: Geog 588 or equivalent.

E.1.a.12

- *Geog 576 3D Terrain Analysis & Visualization, 2 credits
  Introduction to the theory and methods of the analysis and visualization of 3D digital
  elevation data. Topics include GIS terrain data models, terrain surface analysis,
  watershed delineation, and 3D visualization. Computer lab included. Prerequisite: Geog
  588.

E.1.a.13

- *Geog 577 Photogrammetry and LiDAR, 2 credits
  Introduction to the generation, compilation, and applications of digital elevation data
  derived from photogrammetry and LiDAR. Topics include UAS, digital photogrammetry,
  structure from motion, and LiDAR data processing. Computer lab included. Prerequisite:
  Geog 588.

E.1.a.14

- Geog 591 Professionalism in GIS, 2 credits
  Students meet in a seminar format to learn from each other, from faculty members, from
  community partners, and from other experts and practitioners in the field of Geographic
  Information System. Presentations, dialogue, and case exploration will offer learning

---

* This course is part of a dual-level (400/500) course. For any revisions associated with the 400-level section please
refer to the Undergraduate Curriculum Committee consent agenda memo.

about current issues and practices in the GIS industry. Topics will include the GIS body of knowledge, trends in the field, community activities, professionalization, GIS ethics, and the many practical dimensions of GIS as a career path. Prerequisite: Geog 588.

E.1.a.15
- *Wr 580 Advanced Book Design, 4 credits
  Builds upon the Adobe InDesign, Photoshop, Illustrator, and Acrobat skills that students developed in WR 462/562 Book Design Software and further applied in WR 471/571 Typography, Layout, and Design. This class utilizes hands-on design projects that incorporate more advanced book design skills in terms of workflow, indexing, illustrations, visual data representations, etc. Prerequisite: Wr 571.

E.1.a.16
- *Wr 581 Ebook Production, 4 credits
  Ebook Production teaches the hands-on skills of digital publishing. The course will build on an established understanding of basic text-based languages like HTML, CSS, and XML. Students will be introduced to new tools like iBooks Author, oXygen, and Sigil. Prerequisite: Wr 562.

Changes to Existing Courses

E.1.a.17
- *Bi 526 Principles of Evolution, 4 credits – change title to Advanced Topics in Evolutionary Biology, change credit hours to 3 credits, and add dual-level course.

E.1.a.18
- *Hst 577 Topics in Soviet History, 4 credits – change title to Topics in Russian-Soviet History and change description

E.1.a.19
- *Hst 578 Russian Cultural and Intellectual History, 4 credits – change title to Topics in Russian Cultural-Intellectual History, change description and repeatability

Drop Existing Courses

E.1.a.20
- *Geog 593 Digital Terrain Analysis, 4 credits

E.1.a.21
- *Hst 575 Topics in Early Russian History, 4 credits

E.1.a.22
- *Hst 576 Topics in Imperial Russian History, 4 credits

E.1.a.23
- *Hst 579 Russian Cultural and Intellectual History, 4 credits

E.1.a.24
- *Hst 585 Ottoman World, 4 credits

* This course is part of a dual-level (400/500) course. For any revisions associated with the 400-level section please refer to the Undergraduate Curriculum Committee consent agenda memo.

College of Urban and Public Affairs

New Course

E.1.a.25

- PA 587 Principles and Practices of Emergency Management, 3 credits
  Explores the history, doctrines, and authorities of emergency management as well as the role of the emergency manager. It provides background on this emerging field as well on theoretical foundations of effective emergency management and strategies for effective emergency management leadership. This is the same course as EMCR 587 and may be taken only once for credit.

Changes to Existing Courses

E.1.a.26

- EMCR 540 Principles and Practices of Emergency Management, 3 credits – change course number to EMCR 587 and add cross-listing with PA 587

E.1.a.27

- USP 529 Green Buildings I, 3 credits – change course number to USP 534, change title to Green Buildings, add USP 434 as a dual-level cross-listing.

---

* This course is part of a dual-level (400/500) course. For any revisions associated with the 400-level section please refer to the Undergraduate Curriculum Committee consent agenda memo.