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Recommendations

Faculty Senate

4-28-2023

SR 22-23-49 CC

Marshall University Faculty Senate

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University Curriculum Committee RECOMMENDATION

SR 22-23-49 CC

Recommends approval of the listed **UNDERGRADUATE COURSES ADDITIONS** in the following college and/or schools/programs:

School of Aviation

AVSC 280-283 Special Topics

- **Rationale:** Addition of special topics options
- **Curriculum:** [Course Addition AVSC 280 \(1\)1.pdf](#)

AVSC 311 Aircraft Systems and Powerplants

- **Rationale:** Learn FAA rules and safety procedures; prepare for Remote Pilot licensing exam; operate drones to collect remote sensing data; process imagery for analysis; integrate sUAS imagery with existing GIS data.
- **Curriculum:** [Course Addition AVSC 311.pdf](#)

AVSC 420 International Aviation

- **Rationale:** Review of international flights including planning, documentation, navigation, international regulations, safety, and respect for local cultures.
- **Curriculum:** [Course Addition AVSC 420 1.pdf](#)

AVSC 454 Drones: Remote Sensing & GIS

- **Rationale:** Learn FAA rules and safety procedures; prepare for Remote Pilot licensing exam; operate drones to collect remote sensing data; process imagery for analysis; integrate sUAS imagery with existing GIS data.
- **Curriculum:** [Course Addition AVSC 454 1.pdf](#)

AVSC 480-483 Special Topics

- **Rationale:** Addition of special topics options
- **Curriculum:** [Course Addition AVSC 480 \(1\) 1.pdf](#)

College of Engineering and Computer Sciences

BME 410 Biomedical Imaging

- **Rationale:** Introduces medical imaging and physical principles, instrumentation methods, and imaging-related algorithms of X-ray, CT, MRI, PET
- **Curriculum:** [Course Addition \(BME 410, Biomedical Imaging\).pdf](#)

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BME 420 Nanomedicine

- **Rationale:** This course focuses on the fundamental properties, synthesis and characterization of nanomaterials, coupled with their applications in nanomedicine.
- **Curriculum:** [Course Addition \(BME 420, Nanomedicine\).pdf](#)

College of Liberal Arts

GEO 223 Digital Earth

- **Rationale:** Students employ GIS, GPS, Remote Sensing, and Drones for spatial data collection and analysis and investigate how the tools function for studying human and physical Earth systems.
- **Curriculum:** [Undergrad Course Addition GEO223 signed.pdf](#)

College of Business

ENT 200H Smith StartUp Incubator Honors

- **Rationale:** An interdisciplinary experiential course that guides student entrepreneurs on discovering a problem they are passionate about.
- **Curriculum:** [ENT 200H.pdf](#)

School of Pharmacy

BSPS 444 – Princ of Disease Drug Act

- **Rationale:** Topics covered include the concepts and mechanism of the basic processes underlying disease and pathophysiology, the general principles underlying drug action and therapeutics, including receptor pharmacology, enzyme inhibition and pharmacology, and the relationship between drug concentration at the target tissue and drug effect.
- **Curriculum:** [BSPS444 course addition and syllabus.pdf](#)

BSPS 447 – Pharmaceutical Chemistry

- **Rationale:** Topics covered include functional groups found in drug structures and their chemical properties drug solubility, absorption, metabolic pathways of drug molecules, biomolecules, enzymes and enzyme kinetics.
- **Curriculum:** [BSPS 447 course addition and syllabus.pdf](#)

**University Curriculum Committee
RECOMMENDATION**

SR 22-23-49 CC

FACULTY SENATE CHAIR:

APPROVED BY THE
FACULTY SENATE:  DATE: 4/20/2023

DISAPPROVED BY THE
FACULTY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED:  DATE: 4/20/23

DISAPPROVED: _____ DATE: _____

COMMENTS: _____

