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Recommendations

Faculty Senate

4-22-2022

SR 21-22-43 UCC

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University Curriculum Committee RECOMMENDATION

SR 21-22-43 UCC

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

College of Arts and Media

Course Name Additions and Rationales:

THE 325 Theatre Career Marketing

- **Rationale:** Examination of strategic marketing and personal branding techniques for designing, enhancing, and promoting a professional image for the theatre artist.
- **Curriculum:** [Addition Course THE 325.pdf](#)

College of Engineering and Computer Sciences

Course Name Additions and Rationales:

ME 305 Aircraft Systems

- **Rationale:** Introduction to flight control, engine control, fuel, hydraulic, landing, electrical, emergency, avionics, navigation, environmental control systems. Aerospace design and developmental methodology.
- **Curriculum:** [ME305.pdf](#)

ME 312 Flight Mechanics

- **Rationale:** Derivation and solution of the general equations of motion (EOM) for aircraft. Solution of EOM for cruise flight and maneuvers including coordinated turns, takeoff, and landing.
- **Curriculum:** [ME 312.pdf](#)

ME 422 Flight Stability and Control

- **Rationale:** The course covers flight dynamics, and modeling, stability, and control aspects of aircrafts.
- **Curriculum:** [ME422.pdf](#)

ME 456 Materials for Aerospace

- **Rationale:** Covers the main structural materials used in aircraft in terms of their production, properties, performance, and applications.
- **Curriculum:** [ME456.pdf](#)

**University Curriculum Committee
RECOMMENDATION**

SR 21-22-43 UCC

ME 471 Finite Element Method

- **Rationale:** Basic concepts of finite element method; numerical method for solving boundary value problems in solid mechanics and heat transfer beam, trusses and frames; use of commercial software.
- **Curriculum:** [ME471.pdf](#)

ME 473 Computational Fluid Dynamics

- **Rationale:** Conservation laws of fluid motion and heat transfer; fundamental knowledge to use numerical techniques to solve fluid-thermal problems.
- **Curriculum:** [ME473.pdf](#)

College of Sciences

Course Name Additions and Rationales:

BSC 466 Biology of Amphibians

- **Rationale:** A survey of the reptiles of the world with special emphasis placed on forms resident to West Virginia, including aspects of ecology, physiology, zoogeography, anatomy, taxonomy, and behavior.
- **Curriculum:** [BSC466 CourseAddition.pdf](#)

FACULTY SENATE CHAIR:

Christopher

APPROVED BY THE FACULTY SENATE

DATE: 3/25/2022

UNIVERSITY PRESIDENT:

APPROVED: *Bob*

DATE: 4/22/22

DISAPPROVED: _____ DATE: _____

COMMENTS: _____
