Recommendations   Faculty Senate

5-4-2007

SR-06-07-22 CC

Marshall University

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CURRICULUM COMMITTEE
RECOMMENDATION

SR-06-07-22 CC

Recommends approval of the listed **COURSE ADDITIONS** in the following colleges and/or schools:

- ## COLLEGE OF HEALTH PROFESSIONS

DTS   215   Assessment and Education Strategies in DTS   3 hours
Establish a foundation for effective nutrition assessment and education of individuals and groups.
Prerequisite(s): DTS 201

NUR   101   Academic Success for the Associate Degree Nursing Student   1 hour
This seminar course is designed to assist students to be successful in an Associate Degree Nursing
Program. Students are expected to be active participants each class session. Co-requisite(s): NUR
120 or NUR 123.

- ## COLLEGE OF LIBERAL ARTS

HST   439   Modern China Through Film   3 hours
Through a combination of films, lectures, readings, discussions, and writings, the course will show
how China took its unique path to modernization. Co-requisite(s)/Prerequisite(s): None.

JPN   240   Japanese Society and Culture in Translation   3 hours
An introduction course of Japanese society and culture through Japanese films, readings, and
lectures. This course examines social, political and cultural themes in contemporary Japanese
society. Course taught in English. Co-requisite(s)/Prerequisite(s): None.

JPN   280-283   Japanese Special Topics   1 – 4 hours
Study of a topic not normally covered in courses. Co-requisite(s)/Prerequisite(s): JPPN 204 and
permission of instructor.

JPN   315   Advanced Japanese II   3 hours
Equal emphasis on listening, speaking, reading, and writing skills. Students learn advanced grammar
and 100 Kanji characters. The course includes preparation for the Japanese Proficiency Exam.
Course taught in Japanese. Co-requisite(s)/Prerequisite(s): JPN 305.

JPN   480-483   Japanese Special Topics   1 – 4 hours
Study of a topic not normally covered in courses. Co-requisite(s)/Prerequisite(s): JPN 204 and
permission of instructor.

- ## COLLEGE OF SCIENCE

BSC   425   Biosystematics   3 hours
Biosystematics is a unifying discipline that combines *taxonomy* (collecting, describing and naming
organisms), *phylogenetics* (evolutionary relationships among species), and *classification*

(organization of taxa into groups which ultimately reflect evolutionary relationship).
Co-requisite(s)/Prerequisite(s): BSC 121 with a C or better.

BSC   443   Microbial Genetics   3 hours
Microbial Genetics covers the essential functions of DNA replication and gene expression in
prokaryotic cells. The course includes molecular genetics of bacteria and phages, bioinformatics and
discussion of laboratory techniques. Co-requisite(s)/Prerequisite(s): BSC 121 with a C or better;
BSC 302 recommended.

IST   360   Game Development I: 2D   3 hours
Covers computer software industry, history and the role of a creative game development team.
Students will participate in the game development process, including art, animation, programming,
music, sound and writing. Prerequisite(s): IST 163 & IST 236.

IST   438   Computer Graphics for Gaming   3 hours
Fundamental concepts dealing with the display of graphic information on semi-interactive storage
tube displays. The course includes techniques for hidden line display, hidden line removal, and two-
and three-dimensional transformation. Prerequisite(s): IST 163 & IST 236.

IST   439   Game Development II: 3D   3 hours
Covers state of the art techniques for computer game design and development with an emphasis on
the 3D graphics and interaction through practical, example driven approaches of game development.
Prerequisite(s): IST 438

IST   460   Game Development III: AI   3 hours
Advanced concepts of game development with a focus on artificial intelligence. AI techniques
covered include A* path finding algorithm, rule-based reasoning, reinforcement learning, neural
networks, genetic algorithm, knowledge representation. Prerequisite(s): IST 439

MTH   329   Elementary Linear Algebra   3 hours
Systems of linear equations, matrices and determinants, vector spaces, linear transformations,
eigenvalues, eigenvectors, and applications. Co-requisite(s)/Prerequisite(s): None. Course being
deleted in place of this addition: MTH 330.

MTH   345   Applied Probability and Statistics   3 hours
Statistical methods in scientific/engineering research, with emphasis on applications. Probability
modeling, experimental design/survey sampling, estimation/hypothesis testing procedures,
regression, ANOVA/factor analysis. Implementation using statistical software such as Excel, SAS.
Co-requisite(s)/Prerequisite(s): MTH 230 or IST 230.

MTH   404   Mathematics Methods and Materials   3 hours
Content and content-specific pedagogy for secondary mathematics education majors. Co-
requisite(s)/Prerequisite(s): CI 470 / Admin 5.

MTH   440   Graph Theory and Combinatorics   3 hours
The course is designed to introduce students in mathematical sciences to the theorems, techniques
and applications of graph theory and combinatories. Co-requisite(s)/Prerequisite(s): MTH 300.

PHY   425   Solid State Physics   3 hours
The course provides a broad introduction to the structure and physical properties of solids. It also serves as a basis for advanced courses in solid state and condensed matter physics. Co-requisite(s)/Prerequisite(s): PHY 320 or 442 or CHM 442.

RATIONALE:

Each course is an appropriate addition to the respective programs.

FACULTY SENATE CHAIR:

APPROVED BY THE
FACULTY SENATE: _____*Larry Stickler*_____ DATE: _5/4/2007_

DISAPPROVED BY THE
FACUTY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED: _____ DATE: _5/9/07_

DISAPPROVED: _____ DATE: _____

COMMENTS: _____

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