

Marshall University

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Recommendations

Faculty Senate

3-5-2023

SR 22-23-33 CC

Marshall University Faculty Senate

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University Curriculum Committee RECOMMENDATION

SR 22-23-33 CC

Recommends approval of the listed **UNDERGRADUATE DEGREE PROGRAM ADDITION, DELETION, CHANGE** in the following college and/or schools/programs:

College of Engineering and Computer Sciences

Degree Change: B.S. in Civil Engineering (TE60)

- **Summary of Changes:** Updates to courses that fulfill degree requirements.
- **Rationale:** Changes clarify which degree requirements are satisfied by one new (CE 415) and one recently-added (CE 426) Civil Engineering course. Additionally, EBGR 215 would be excluded as a course that can count as a Technical Elective, due to overlapping topics with CE 321, and certain 200-level special topic and internship designators would be excluded as technical electives.
- **Curriculum:** [Civil Engineering - catalog change request 2022.pdf](#)

School of Pharmacy

Degree Addition: B.S. Pharmaceutical Sciences

- **Rationale:** The purpose of the B.S. in Pharmaceutical Sciences (BSPS) program is to prepare students for targeted industries requiring BS-level pharmaceutical sciences skills in pharmaceutical, biomedical, and other healthcare fields. Pharmaceutical sciences encompass a wide range of sciences that link to the discovery and development of new drugs and therapies to improve people's lives. The BSPS program trains students for diverse positions in industrial, academic, or other research environments within the areas of drug discovery, development, and commercialization. These students will also have the option of completing an internship in the pharmaceutical industry.

The program is offered as part of an accelerated 3 + 4 program in conjunction with the Doctor of Pharmacy degree (3 years B.S. + 4 years Pharm.D.). The first 3 years of the BSPS program include all prerequisite courses that are required for matriculation into the Pharm.D. program as well as all university core requirements for a B.S. The course work in the fourth year of the BSPS program is synonymous with the course work in the first year of the Pharm.D. program. This allows both degrees to be completed within 7 (3 + 4) years. This will enable Marshall University to have a "pre-pharmacy" program that is housed within the School of Pharmacy. This will facilitate recruitment of students into the Pharm.D. program by allowing us to recruit at the high school level rather than restricting our recruitment efforts to students that have met the 55 credit hours of college prerequisite course work that is required for entry into the Pharm.D. program.

Currently, most students in the Pharm.D. program complete the 55 credit hours of prerequisite coursework at other institutions and then transfer into the Marshall Pharm.D. program. Some of these students successfully complete the first year of the Pharm.D. program

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and subsequently decide that a career as a pharmacist is not the right career path for them. These students have already completed all coursework that is required in years 1 and 2 of the BSPS program (because these courses are prerequisites for the PharmD program). Thus, the BSPS program will also serve as an "exit ramp" for students that transfer from outside of Marshall into the PharmD program and subsequently decide that the Pharm.D. is not the right career path for them. Transitioning from the Pharm.D. into the BSPS program would enable these students to leave Marshall with an undergraduate degree rather than leaving the university with a lot of debt and no degree. Students exiting the Pharm.D. program will have already completed most of the course work required for BSPS years 1 and 2 (because most of these courses are Pharm.D. prerequisites). Students that successfully complete year 1 of the Pharm.D. program will also have completed year 4 of the BSPS. Thus, they will be able to earn a BSPS with minimal additional course work beyond what they have already completed.

- **Curriculum:** signed BSPS addition of program form 010522.pdf

FACULTY SENATE CHAIR:

APPROVED BY THE
FACULTY SENATE:  DATE: 2/23/23

DISAPPROVED BY THE
FACULTY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED:  DATE: 3/5/2023

DISAPPROVED: _____ DATE: _____

COMMENTS: _____

