

Memorandum of Understanding

Dual-degree Engineering

between

Emporia State University

and

Wichita State University

Introduction

This Memorandum of Understanding (MOU) formalizes dual-degree program opportunities between partnering institutions Emporia State University (ESU) and Wichita State University (WSU). Specifically, the dual-degree program (a two-plus-two) program options are between either of two ESU Bachelor of Science (BS) degree majors, mathematics or physics, and selected engineering or College of Engineering at WSU.

The dual-degree program opportunities enable students to complete the prescribed plan in conjunction with a departmental advisor to spend three years of full-time study toward the ESU BS degree major, mathematics or physics, followed by two years of full-time study at WSU pursuing course work toward a BS in a selected engineering program curricula. Initially, the ESU mathematics major would articulate with aerospace engineering, electrical engineering (with "electronics" or "power" emphasis), industrial/manufacturing engineering (two separate degree options), and mechanical engineering. The ESU physics major is designed to articulate with aerospace, electrical, industrial/manufacturing, and mechanical, but also engineering technology (the renewable energy technology option), chemical, computer, construction, bioengineering, and potentially others for which this MOU provides the guidelines.

Objectives of the Inter-Institutional Partnership

Among the objectives of the partnership are the following:

- To provide additional dual-degree engineering program options for ESU mathematics and physics majors,
- To provide an additional pathway for prospective students to complete a program with the College of Engineering at WSU,
- To provide an established inventory of course equivalencies to facilitate the transfer of courses between ESU and WSU, and vice versa,
- To thereby facilitate the transition of students from ESU to WSU,
- To encourage academic and administrative cooperation between the partnering universities, and to the exchange of evaluative information on the outcomes of the programs and program students toward the goal of continuous improvement at the partnering universities,
- To address the science, technology, engineering, and mathematics (STEM) workforce development needs for the overall economic development in the state of Kansas.

Institutional Expectations

Emporia State University students shall maintain a cumulative grade point average of 2.0 or higher in all courses taken at ESU and in all transfer credits from other institutions. The following ESU departmental and institutional requirements apply:

- Four semesters in residence at ESU, each semester at the sophomore or junior classification. (Typically, a student pursuing the dual degree program will spend only three years in residence, but a four-semester requirement permits a student to transfer credits from another institution.)
- Completion of the ESU general education requirements currently in effect with the exceptions or substitutions previously granted for existing dual degree programs with engineering degree granting universities.
- Completion of the minimum requirements for a BS degree major in mechanical or physics. This is accomplished via courses completed in the three years of attendance at ESU, or via a "course-by-course" transfer of appropriate WSU engineering courses (as noted on a student's degree contract filed with the ESU Registrar) in residence at ESU. All major course electives yet-to-be-completed.
- Any additional courses as are necessary for the student degree candidate to earn a total of 124 credit hours. (Typically, the minimum number of hours at the end of the fourth year of full-time dual degree status for the candidate will be 124 hours, the prescribed plan, and after the first year at WSU.)

Students in the Wichita State University degree programs or dual degree programs counterpart sought will meet the WSU degree requirements including:

- General education requirements, both university-wide and departmental. Engineering-specified courses to fulfill the general education requirements, e.g., PHIL 385 Engineering Ethics.
- College of Engineering mathematics and natural sciences courses and engineering core course requirements for any engineering program sought.
- Departmental requirements specific to the selected engineering curriculum (i.e., the engineering major sought) including technical electives.
- Three of the six College of Engineering options to fulfill the "Engineering 2020" expectations consistent with National Academy of Engineering exhortations.
- Requirements specified by the American Society of Mechanical Engineers (ASME) and the Engineering Accreditation Committee of the Accreditation Board for Engineering and Technology (ABET).

The WSU requirements will be met by either transfer of ESU-approved courses or enrollment in the requisite WSU courses.

The transfer courses applicable to the curricula covered by this Memorandum are specified in the companion ESU transfer agreement and the ESU three-year mathematics and physics major templates that accompany this Memorandum. ESU and WSU will jointly review these prescribed plans every three years, minimum, and revise them as needed to reflect changes in course requirements.

Program Promotion

The partnering institutions agree to ensure the joint dissemination of information. The ECU advisor(s) will make efforts to maintain information intended to promote a cooperative engineering program at WSU as requested. Further, it is anticipated that the WSU College of Engineering will have the opportunity to present dual-degree engineering program students enrolled in the ECU introductory Engineering course over a two-semester period.


Confidentiality of Student Information and Records

ECU and WSU administrators and faculty possessing a legitimate need to access concerning current or prospective student records. Pursuant to that, ECU and WSU faculty, staff, and administrators agree to honor current or prospective student records, FERPA regulations, FERPA guidelines, and the responsibilities of the ECU and WSU faculty, staff, and administrators involved in the administration and delivery of the respective institutions.


Any information germane to the respective programs of the university partners will be shared, also may include formative and/or summative assessments, particularly during surveys and exit interviews administered at the time of completion of a degree program at the respective

On Behalf of the Partnering Institutions

Date: October 10, 2015



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