

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 options (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, and complete 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 will coordinate 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 coordinate with aerospace, electrical, industrial/manufacturing, and mechanical, nuclear engineering technology (the renewable energy technology option), 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 students.
- To provide an additional pathway for respective students to participate in 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.
- 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 outcomes toward the goal of workforce development for the partnering universities.
- To address the science, technology, engineering, and management workforce development needs for the overall economic development in the state of Kansas.

Institutional Expectations

Emporia State University students shall maintain a minimum cumulative grade point average (GPA) of 2.0 in all courses taken at ESU and in 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 higher classification. (Typically, a student pursuing the above degree program will spend 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 current in effect with the exceptions or substitutions previously granted for existing sub-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 superior 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 superior 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 allow the prescribed plan, and after the first year at WSU.)

Students in the Wichita State University (WSU) dual degree engineering program 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, i.e., 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 memorandum 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.

The partnership involves the joint development and dissemination of information. The ECU advisor(s) will be responsible for identifying students intending to pursue a computer engineering program at WSU. The WSU advisor(s) will be responsible for identifying students at ECU who are interested in pursuing a dual-degree engineering program. Students enrolled in the ECU introductory Engineering course offered in fall semesters.


Confidentiality of Student Information and Records

ECU and WSU administrators and faculty possessing a legitimate need to access student information concerning a prospective student. Pursuant to that, ECU and WSU faculty, staff, and administrators agree to honor current or prospective student privacy rights as set forth in the Family Educational Rights and Privacy Act (FERPA) regulations. FERPA grants the responsibility of the ECU and WSU faculty, staff, and administrators involved in the administration and delivery of the prospective student's education.


Any information gathered from surveys and exit interviews administered at the respective programs of the university may include formative and summative assessment data that may be used for program improvement purposes.

On Behalf of the Partner Institutions


Date: October 19, 2019



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President, Emporia State University



John W. Bardo
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