ADDITIVE MANUFACTURING AND DESIGN GRADUATE CREDIT CERTIFICATE PROGRAM

Person-in-Charge: Allison Beese
Program Code: AMD
Campus(es): World Campus

The overall goal of the graduate AMD Certificate is to educate post-baccalaureate students and working engineers in the fundamental principles and applications of additive manufacturing. The AMD Certificate provides an entry for industry practitioners and existing workforce to gain knowledge and skills for additive manufacturing. Many workers may already have a graduate-level degree yet seek opportunities for professional development and education, particularly in additive manufacturing and design. The 12-credit curriculum will expose students to the knowledge and skills necessary to work effectively across AMD domains.

Effective Semester: Fall 2018
Expiration Semester: Summer 2023

Admission Requirements
Applicants apply for admission to the program via the Graduate School application for admission (http://gradschool.psu.edu/prospective-students/how-to-apply/). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (http://gradschool.psu.edu/graduate-education-policies/). International applicants may be required to satisfy an English proficiency requirement; see GCAC-305 Admission Requirements for International Students (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-305-admission-requirements-international-students/) for more information.

The admission requirements for the students enrolling in the online AMD Certificate will be based on a combination of academic records, resume and applicable work experience, personal statement of interests, and three letters of recommendation from a previous professor or supervisor who can attest to the applicant’s academic potential. Applicants will be expected to have a Bachelor of Science or four-year Associate's degree from an accredited institution in engineering, engineering technology, manufacturing, materials science, or related field. An undergraduate cumulative grade point average of 3.0 or better on a 4.0 scale in the final two years of undergraduate studies is required.

Certificate Requirements
Requirements listed here are in addition to requirements listed in Graduate Council policy GCAC-212 Postbaccalaureate Credit Certificate Programs (http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-212-postbaccalaureate-credit-certificate-programs/).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>EDSGN 562</td>
<td>Design for Additive Manufacturing</td>
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<tr>
<td>ESC 545</td>
<td>Engineering and Scientific Principles of Additive Manufacturing</td>
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<tr>
<td>IE 527</td>
<td>Additive Manufacturing Processes</td>
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<td>MATSE 567</td>
<td>Additive Manufacturing of Metallic Materials</td>
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<td>Total Credits</td>
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<td>12</td>
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Courses
Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

Contact
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Program Website View (https://www.worldcampus.psu.edu/degrees-and-certificates/penn-state-online-additive-manufacturing-and-design-graduate-certificate/overview/)