

James Worth Bagley College of Engineering

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The Bagley College of Engineering (BCoE) was created at MSU in 1902 as the School of Engineering and was named for MSU alumnus James Worth Bagley (EE, B.S. 1961; M.S. 1966) in 2002. The BCoE seeks to provide an applied and rigorous educational experience for all graduate students through both the Starkville Campus and through online education. For exceptionally qualified bachelor's students, the BCoE offers several direct-admit to the PhD pathways into its various doctoral programs. The College is comprised of eight academic departments and offers 12 master's degrees and 12 doctoral degrees. Excellence in research is a high priority for BCoE faculty. The College is comprised of tenure-track, teaching, and research faculty who play an active role in instruction, research, and oversight of graduate students. With several state-of-the-art research centers and laboratories to provide hands-on experience for master's and doctoral students, excellence extends beyond the classroom offerings. Information on BCoE research centers and laboratories may be accessed under General Information—Centers and Institutes in this publication. The BCoE also focuses on the placement of BCoE Engineering graduates with major multinational companies and top research universities. BCoE is committed to a diverse student study body and seeks to enrich graduate education by providing a multiplicity of views and perspectives that enhance research, teaching, and the development of new knowledge.

Application Deadlines

Applications for the degree programs are reviewed three times a year and are different from the university published deadlines. The application deadlines for all students are as follows:

- Fall Semester – June 1
- Spring Semester – November 1
- Summer Semester – May 1

Note: Some departments may have earlier deadlines. Please refer to departmental pages for program specific deadlines.

Degree and Certificate Programs

The BCoE offers 12 master's and 12 doctoral degree options. All programming, unless otherwise noted, is offered at the Starkville Campus and through Online Education. Students wishing to switch degree program must apply and be admitted to that program unless the student wishes to change levels within a degree program (move from PhD in ISE to MS in ISE for example). As such, students are strongly encouraged to speak with the new program before submitting a new application. Direct admit students wishing to earn the MS degree along the way must apply to that MS program by the deadline before their terminal semester. For additional information, please speak with your graduate coordinator regarding the requirements for the MS degree before applying to the MS program.

Department	Degree and Major	Concentration	Thesis	Non-Thesis	Starkville	Meridian	Distance
Aerospace Engineering	Master of Science - Aerospace Engineering		X	X	X		X
Aerospace Engineering	Doctor of Philosophy - Engineering	Aerospace Engineering			X		X
Agriculture and Biosystems Engineering	Master of Science - Biosystems Engineering		X		X		
Agriculture and Biosystems Engineering	Master of Science - Biomedical Engineering		X		X		

Agriculture and Biosystems Engineering	Doctor of Philosophy - Engineering	Biosystems Engineering			X	
Agriculture and Biosystems Engineering	Doctor of Philosophy - Biosystems Engineering				X	
Dave C. Swalm School of Chemical Engineering	Master of Science - Chemical Engineering		X	X	X	X
Dave C. Swalm School of Chemical Engineering	Doctor of Philosophy - Engineering	Chemical Engineering			X	X
Civil & Environmental Engineering	Master of Science - Civil Engineering		X	X	X	X
Civil & Environmental Engineering	Doctor of Philosophy - Engineering	Civil Engineering			X	X
Computer Science & Engineering	Master of Science - Computer Science		X	X	X	X
Computer Science & Engineering	Master of Science - Cyber Security and Operations	Cyber Defense	X	X	X	X
Computer Science & Engineering	Master of Science - Cyber Security and Operations	Cyber Operations	X	X	X	X
Computer Science & Engineering	Doctor of Philosophy - Computer Science				X	X
Electrical & Computer Engineering	Master of Science - Electrical and Computer Engineering		X	X	X	X
Electrical & Computer Engineering	Doctor of Philosophy - Electrical and Computer Engineering				X	X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Human Factors & Ergonomics	X	X	X	X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Industrial Systems	X	X	X	X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Management Systems	X	X	X	X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Manufacturing Systems	X	X	X	X
Industrial & Systems Engineering	Master of Science - Industrial Engineering	Operations Research	X	X	X	X

Industrial & Systems Engineering	Master of Science - Industrial Engineering	Data Analytics	X	X	X	X
Industrial & Systems Engineering	Doctor of Philosophy - Industrial and Systems Engineering				X	X
Mechanical Engineering	Master of Science - Mechanical Engineering		X	X	X	X
Mechanical Engineering	Doctor of Philosophy - Engineering	Mechanical Engineering			X	X
Interdisciplinary	Master of Engineering - Engineering		X	X		X
Interdisciplinary	Master of Science - Computational Engineering		X	X	X	X
Interdisciplinary	Doctor of Philosophy - Computational Engineering				X	X
Interdisciplinary	Doctor of Philosophy - Engineering	Applied Physics			X	
Interdisciplinary	Doctor of Philosophy - Engineering	Engineering Education			X	X

Stand-Alone Certificate Programs

Stand-alone certificate programs are programs in which students can apply directly to that certificate without being a degree seeking student. MSU and the BCoE strongly support the use of these stand-alone certificate programs to be used for degree fulfillment should a student decide to apply and be admitted into a BCoE graduate program upon completion of the certificate program.

Athlete Engineering Certificate

The Athlete Engineering Certificate comprises 12 credit hours in different human performance, processes, and analysis fields, all originating out of Industrial & Systems Engineering but in classes that partner with other engineering disciplines and Kinesiology and Human Science experts and faculty. This is a graduate only certificate, and all applicants must have already completed a bachelor's degree to be eligible for admissions. Successful applicants must have a STEM undergraduate degree from an accredited university. Fields such as Science, Math, Engineering, Technology, Information Systems, Kinesiology, and other Health-related subjects would be suitable as a background degree for this certificate program.

For more information about the online Athlete Engineering Certificate, please visit <https://www.bagley.msstate.edu/certificates/>.

Note: The following certificates are not stand-alone programs and must be completed in conjunction with either an undergraduate or graduate degree program:

- Automotive Engineering
- Computational Biology
- Information Assurance Professional Certificate
- Materials Engineering

Online Education

The Bagley College of Engineering offers 10 MS and 10 PhD programs online. For more information about the college's online programs, please visit <https://www.bagley.msstate.edu/online/programs/> (<https://www.bagley.msstate.edu/distance/programs/>).