Graduate Curriculum Committee

Minutes

Academic Matters (Full Committee)
Thursday, March 10, 2016

Present: Breedveld (CHBE), Pikowsky (Registrar), Chow (CoC-CSE), Flowers (ARCH), Jagoda (AE), Omiecinski (CoC-CS), Schmidt-Krey (BIOL)

Visitors: Hodges (REG), Cole (REG), Turner (GTRI), Schlumper (GTRI), White (CoC), Hesketh (ME), Sokol (ISyE), Atkinson (GTRI), Butler (GTRI), Phillips (BC), Levine (PUBP), Wooley (GTRI), Mark (GTPE), Irizarry (BC), Marsolan (RBI), Ahamad (CS), Castro (BC), Choi (ID), Roper (BC), Yang (BC), Beyah (ECE)

Note: All action items in these minutes require approval by the Academic Senate. In some instances, items may require further approval by the Board of Regents or the University System of Georgia. If the Regents' approval is required, the change is not official until notification is received from the Board to that effect. Academic units should take no action on these items until USG and/or BOR approval is secured. In addition, units should take no action on any of the items below until these minutes have been approved by the Academic Senate or the Executive Board. It may also be that approval of the Southern Association of Colleges and Schools is also required.

There was no quorum for the face-to-face meeting. An email ballot subsequently approved the actions of those Committee members who were present at the meeting and approved the Minutes themselves. A quorum of the members participated in the email ballot.

Academic Matters

1. A motion was made to *approve* a request from the Schools of Computational Science & Engineering, Business, and Industrial & Systems Engineering for new cross-listed courses. This motion was seconded and approved upon contingency.

   New Course – APPROVED upon contingency (see below for updates)

CSE 6748: Applied Analytics Practicum I	0-9-3
CSE 6749: Applied Analytics Practicum II	0-9-3
MGT 6748: Applied Analytics Practicum I	0-9-3
MGT 6749: Applied Analytics Practicum II	0-9-3

ISYE 6748: Applied Analytics Practicum I 0-9-3
ISYE 6749: Applied Analytics Practicum II 0-9-3

Note: There were questions about these courses as proposed, particularly in regard to the fact that they were requested as co-requisites. It was confusing to see a course with two sequences, part I and part II, be co-requisites. The content appeared the same. The Committee determined that it made more sense, after some discussion of the content and why the request was made in this fashion, that these courses should be offered as one course instead of two. The courses, parts I and II, were merged, the NCP's were updated, and the hours changed. The courses were approved as follows:

CSE 6748: Applied Analytics Practicum 0-18-6
MGT 6748: Applied Analytics Practicum 0-18-6
ISYE 6748: Applied Analytics Practicum 0-18-6

2. A motion was made to *approve* a request from the Schools of Chemical & Biomolecular Engineering, Mechanical Engineering, and Electrical & Computer Engineering for a certificate modification. This motion was seconded and approved.

Certificate Modification – APPROVED
Microelectromechanical Certificate

The Microelectromechanical (MEMS) Certificate is adding two additional course to the breadth electives. This will provide additional areas for students which are highly relevant to the MEMS certificate.

Current MEMS Certificate Curriculum:

Required:
ChBE/ECE/ME 6229 Intro to MEMS
ChBE/ECE/ME 6460 MEMS Devices

Select two of six:
ChBE 6710 Microfluidics
ECE 6200 Biomedical Applications of MEMS
ECE 6422 MEMS Interface IC Designed for MEMS Sensors
ME 6449 Transducers and Signals
ME 6124 Finite Element Analysis
ME 8833 (Must have title: Thin Film Properties)

Total credit hours: 12 credits

Proposed MEMS Certificate Curriculum:
Required:
ChBE/ECE/ME 6229 Intro to MEMS
ChBE/ECE/ME 6460 MEMS Devices

Select two of six:
ChBE 6710 Microfluidics
ECE 6200 Biomedical Applications of MEMS
ECE 6422 MEMS Interface IC Designed for MEMS Sensors
ME 6449 Transducers and Signals
ME 6124 Finite Element Analysis
ME 8833 (Must have title: Thin Film Properties)
ME 6776 Microsystem Packaging
ECE 6450 Introduction to Microelectronic Technology

Total credit hours: 12 credits

3. A motion was made to *table* a request from the School of Mechanical Engineering for pre-requisite modifications as there was not a representative in attendance to address questions. This motion was tabled.

Pre-requisite Modifications – TABLED

ME 6222
Current: ME 4210
Proposed: ME 4215

ME 6225
Current: ME 3015 and ME 6222
Proposed: ME 3017 and ME 6222

ME 6401
Current: ME 3015
Proposed: ME 3017

ME 6403
Current: ME 3015
Proposed: ME 3017

ME 6441
Current: ME 3015
Proposed: ME 3017

ME 6442
Current: ME 3015 and ME 3201
Proposed: ME 3017

4. A motion was made to *approve* a request from the College of Computing for a degree modification. This motion was seconded and approved.

Degree Modification – APPROVED
Doctor of Philosophy with a major in Computer Science (DR-CS)

a. We are requesting to add Programming Proficiency to the current CS PhD requirements. This will become one of the requirements of the program in addition to the existing requirements: CS 7001, Breadth, Qualifying Exam, Proposal, and Dissertation. The result of this addition is that Systems will no longer be a required Breadth area. The Programming Proficiency course that is completed MAY be counted as a Breadth course if it appears on one of the Breadth lists.

Breadth Component
After admission, a student begins to work on fulfilling the breadth requirement. The breadth component of the program is intended to give students a view into a variety of areas within computing. Each student must take classes in 5 of the 15 areas of computer science. The 15 areas are:

- Computational Science and Engineering
- Computer Architecture
- Database Systems
- Graphics and Visualization
- Human-Computer Interaction
- Information Security
- Intelligent Systems (Including Artificial Intelligence, Cognitive Science, and Robotics)
- Learning Sciences and Technology
- Machine Learning
- Networking and Communications
- Programming Languages and Compilers
- Social Computing
- Software Methodology and Engineering
- Systems (Including Operating Systems, and Distributed and Parellel Processing)
- Theoretical Computer Science

Of the five different courses, one must be from the Theory area ~~and one must be from the Systems area~~. Students must earn an A or B in all of these courses, and more As than Bs total.

Students who have taken graduate level courses elsewhere before entering the program can petition to have those classes count towards filling the breadth requirement.

Programming Proficiency Requirement

In addition, each student must complete a Programming Proficiency requirement. A single class may satisfy both the Programming Proficiency requirement and a Breadth area requirement. The Programming Proficiency requirement must be fulfilled at Georgia Tech and may not be satisfied by transfer credit or advanced standing.

The courses that can satisfy the Programming Proficiency Requirement are:

- CS 6210 Advanced Operating Systems
- CS 6241 Design and Implementation of Compilers
- CS 6290 High-Performance Computer Architecture
- CS 6476 Computer Vision
- CS 7637 Knowledge-Based AI
- CS 7646 Machine Learning for Trading
- CS 7650 Natural Language

b. A motion was made to *approve* a request from the College of Computing for a degree modification. This motion was seconded and approved.

This vote was not unanimous. There were 7 votes to approve and 1 vote to abstain.

Degree Modification – APPROVED
Doctor of Philosophy with a major in Computer Science (DR-CS)

We are updating the PhD Breadth areas with new course numbers for Computer Vision that were approved in Proposal 4797 last June. The Breadth area in question is Graphics and Visualization for CS PhD.

Students in the CS PhD program are required to complete a Breadth Component. The breadth component of the program is intended to give students a view into a variety of areas within computing. Each student must take classes in 5 of the 15 areas of computer science. The 15 areas are:

- Computational Science and Engineering
- Computer Architecture
- Database Systems
- Graphics and Visualization
- Human-Computer Interaction
- Information Security
- Intelligent Systems (including Artificial Intelligence, Cognitive Science, and Robotics)
- Learning Sciences and Technology
- Machine Learning
- Networking and Communications
- Programming Languages and Compilers
- Social Computing
- Software Methodology and Engineering
- Systems (Including Operating Systems, and Distributed and Parallel Processing)

- Theoretical Computer Science

The courses approved for the Graphics and Visualization Breadth Component are:

- CS 6421 Temporal, Spatial, and Active Databases
- CS 6476 Computer Vision
- CS 6480 Computer Visualization Techniques
- CS 6491 Computer Graphics
- CS 6780 Medical Image Processing
- CS 7476 Advanced Computer Vision
- CS 7490 Advanced Image Synthesis
- CS 7491 3D Complexity
- ~~CS 7495 Computer Vision~~
- CS 7496 Computer Animation
- CS 7497 Virtual Environments
- CS 7636 Computational Perception

c. A motion was made to *approve* a request from the College of Computing for a degree modification. This motion was seconded and approved.

This vote was not unanimous. There were 7 votes to approve and 1 vote to abstain.

Degree Modification – APPROVED
Doctor of Philosophy with a major in Human-Centered Computing (DR-HCC)

We are updating the HCC Specialization areas with new course numbers for Computer Vision that were approved in Proposal 4797 last June. The Specialization area in question is Artificial Intelligence for HCC PhD.

Students in the HCC PhD program are required to complete a Specialization. The specialization courses provide HCC students with depth of knowledge in their chosen fields as well as breadth of knowledge in another area of computing. Students must take three elective courses: two from the area of HCC specialization -- such as Artificial Intelligence, Cognitive Science, Human-Computer Interaction, Learning Sciences and Technologies, Social Computing -- and one from another area, for a total of at least nine semester hours.

- Artificial Intelligence
- Cognitive Science
- Human-Computer Interaction
- Learning Sciences and Technology
- Social Computing

The courses approved for the Artificial Intelligence Specialization are:

- CS 6476 Computer Vision
- CS 6601 Artificial Intelligence
- CS 7461 Machine Learning
- CS 7476 Advanced Computer Vision
- ~~CS 7495 Computer Vision~~
- CS 7610 Modeling and Design
- CS 7637 Knowledge-Based AI
- CS 7620 Case-based Reasoning
- CS 7650 Natural Language
- CS 8803 Computational Creativity
- CS 8803 Expressive AI
- CS 8803 Game AI
- CS 8803 Human Robot Interaction

d. A motion was made to *approve* a request from the College of Computing for a degree modification. This motion was seconded and approved.

Degree Modification – APPROVED
Master of Science in Computer Science (Computational Perception & Robotics concentration)

We propose adding an elective course to the Computational Perception and Robotics concentration list under the Perception subheading. The faculty for CPR has voted that it is a relevant area of student for Computational Perception and Robotics, and the change was approved by the CoC GCC.

Program Options
Students may choose from one of the following three options in pursuing the MSCS.

Course Option

- 30 hours of course work (no MS project or thesis hours)
- Total course credit hours required: 30
- Minimum CS/CSE course credit hours: 24
- Minimum CS/CSE course credit hours at the graduate (6000-8000) level: 24
- Minimum total credit hours at the 6000-8000 level: 24

Project Option

- 21 hours of course work and a 9-hour project. The student must obtain advance approval of the project proposal by the faculty advisor and MSCS coordinator. See your academic advisor for more information.

- Total credit hours required: 30
- MSCS project hours (CS 6999): 9
- Total course credit hours: 21
- Minimum CS/CSE course hours required: 15*
- Minimum CS/CSE course credit hours at the graduate (6000-8000) level: 15*

Thesis Option

- 18 hours of course work and a 12-hour thesis. The student must obtain advance approval of the thesis proposal by the faculty advisor and MSCS coordinator. See your academic advisor for more information about the thesis process.
- Total credit hours required: 30
- MSCS thesis hours (CS 7000): 12
- Minimum CS/CSE course hours required: 15*
- Minimum CS/CSE course credit hours at the graduate (6000-8000) level: 15*

**May not include MS project or thesis hours.*

Computational Perception and Robotics

Core Courses (6 hours)

Algorithms: Pick one (1) of:
CS 6505 Computability, Algorithms, and Complexity
CS 6520 Computational Complexity Theory
CS 6550 Design and Analysis of Algorithms
CS 7520 Approximation Algorithms
CS 7530 Randomized Algorithms
CSE 6140 Computational Science and Engineering Algorithms

And, pick one (1) of:
CS 6601 Artificial Intelligence
CS 7641 Machine Learning

Electives (9 hours)

Pick three (3) courses from Perception and Robotics, with at least one course from each.

Perception
CS 6475 Computational Photography
CS 7495 Computer Vision
CS 7499 3D Reconstruction
CS 7636 Computational Perception
CS 7650 Natural Language

CS 8803 Special Topics: Multiview Geometry in Computer Vision

Robotics
CS 7630 Autonomous Robotics
CS 7631 Autonomous Multi-Robot Systems
CS 7633 Human-Robot Interaction
CS 7649 Robot Intelligence: Planning

e. A motion was made to *approve* a request from the College of Computing for a degree modification. This motion was seconded and approved.

This vote was not unanimous. There were 7 votes to approve and 1 vote to abstain.

Degree Modification – APPROVED
Master of Science in Computer Science (Computational Perception & Robotics and Computer Graphics concentrations)

We are updating a few of the concentrations with new course number for Computer Vision that was approved in Proposal 4797 last June. The concentrations affected are Computational Perception and Robotics and Computer Graphics.

Program Options
Students may choose from one of the following three options in pursuing the MSCS.

Course Option
- 30 hours of course work (no MS project or thesis hours)
- Total course credit hours required: 30
- Minimum CS/CSE course credit hours: 24
- Minimum CS/CSE course credit hours at the graduate (6000-8000) level: 24
- Minimum total credit hours at the 6000-8000 level: 24

Project Option
- 21 hours of course work and a 9-hour project. The student must obtain advance approval of the project proposal by the faculty advisor and MSCS coordinator. See your academic advisor for more information.
- Total credit hours required: 30
- MSCS project hours (CS 6999): 9
- Total course credit hours: 21

- Minimum CS/CSE course hours required: 15*
- Minimum CS/CSE course credit hours at the graduate (6000-8000) level: 15*

Thesis Option

- 18 hours of course work and a 12-hour thesis. The student must obtain advance approval of the thesis proposal by the faculty advisor and MSCS coordinator. See your academic advisor for more information about the thesis process.
- Total credit hours required: 30
- MSCS thesis hours (CS 7000): 12
- Minimum CS/CSE course hours required: 15*
- Minimum CS/CSE course credit hours at the graduate (6000-8000) level: 15*

**May not include MS project or thesis hours.*

Concentration: Computational Perception and Robotics

Core Courses (6 hours)

Algorithms: Pick one (1) of:
CS 6505 Computability, Algorithms, and Complexity
CS 6520 Computational Complexity Theory
CS 6550 Design and Analysis of Algorithms
CS 7520 Approximation Algorithms
CS 7530 Randomized Algorithms
CSE 6140 Computational Science and Engineering Algorithms

And, pick one (1) of:
CS 6601 Artificial Intelligence
CS 7641 Machine Learning

Electives (9 hours)

Pick three (3) courses from Perception and Robotics, with at least one course from each.

Perception

- CS 6475 Computational Photography
- CS 6476 Computer Vision
- ~~CS 7495 Computer Vision~~
- CS 7499 3D Reconstruction
- CS 7636 Computational Perception
- CS 7650 Natural Language
- CS 8803 Special Topics: Multiview Geometry in Computer Vision

Robotics

- CS 7630 Autonomous Robotics
- CS 7631 Autonomous Multi-Robot Systems
    - CS 7633 Human-Robot Interaction
- CS 7649 Robot Intelligence: Planning

5. A motion was made to *approve* a request from the School of Building Construction for new courses. This motion was seconded and approved.

New Courses – APPROVED

BCP 6700: Current Issues in Occupational Safety and Health 3-0-3
BCP 6800: Culture and Leadership Influences on Safety and Health 3-0-3

Note: The NCP was updated to change the title from "CULTURE & LEADERSHP S&H' to 'CULTURE & LEADERSHIP S&H." The grade components on the syllabus should total 100% instead of 110%. It was requested that this be fixed.

BCP 6900: Economic Analysis, Risk Management Financing & Insurance for Safety Professionals 3-0-3
BCP 6950: Occupational Safety and Health Capstone 3-0-3

Note: The NCP was updated from 3-0-3 to 2-3-3 (Unsupervised Lab/Lecture) to better describe the format of the course. Distribution of Expected Mode of Presentation (Box 11 on NCP) was updated to reflect the lab hours.

A motion was made to *acknowledge* a request from the School of Building Construction for new Special Topics courses. The motion was acknowledged.

New Special Topics Courses – ACKNOWLEDGED

Note: On the NCPs, the School has noted the new permanent numbers that they will use when they submit formal proposals for these courses after they have taught them.

BCP 8803 (Title: Fundamentals of Occupational Safety and Health Program Management) 3-0-3
BCP 8813 (Title: Industrial Hygiene Principles and Health Hazards) 3-0-3
BCP 8823 (Title: Hazardous Materials Management) 3-0-3
BCP 8833 (Title: General Industry Occupational Safety and Health) 3-0-3

BCP 8843 (Title: Advanced Safety Principles) 3-0-3
BCP 8853 (Title: Applied Ergonomics) 3-0-3

A motion was made to *approve* a request from the School of Building Construction for a new degree. The motion was seconded and approved.

New Degree – APPROVED

Professional Master's in Occupational Safety and Health (PMOSH)

The Professional Masters in Occupational Safety and Health Management (PMOSH) program is a terminal degree for industry professionals with 3-5 years of work experience. It is designed to help students develop the skills and knowledge necessary to successfully define and manage complex safety and health programs. As opposed to a Master of Science degree, which typically has a research focus and serves as a gateway to a PhD program, the PMOSH program will provide an applied, practical educational experience through projects, teamwork and industry-relevant case studies. Students will gain real-world experience by collaborating in a team environment through a hybrid of online and in-person learning. They will learn how to think strategically to determine strengths in their company's safety and health management systems while also identifying areas of risks. The six-semester program will be delivered on-line and will include three campus visits where students will collaborate in groups and deliver final presentations at the end of the program. Through the ten-course curriculum, students will study topics areas including fundamentals of occupational safety and health (OSH) and its standards, technologies that can be implemented on OSH, communication skills, and business aspects of OHS.

Goals/objectives of the Program

The objective of the Professional Masters in Occupational Safety and Health is to provide individuals ascending to leadership positions with the knowledge and skills to define and effectively manage safety and health programs in a wide range of organizations where they can have a positive impact in the wellbeing of the labor force.

- Define and describe the principles of managing safety and health
- Analyze the attributes of an organization with respect to safety and health and identify gaps that warrant improvement to attain better safety and health performance
- Design and implement an action plan to improve and sustain the highest level of safety and health performance
- Apply the analytical, technological and business concepts necessary to measure, improve and sustain safety and health performance
- Demonstrate the value proposition of effective safety and health management within an organization

Curriculum
To earn the PMOSH degree, students must complete ten courses. Six courses are proposed as Special Topics courses initially and four are proposed as new courses with the permanent course numbers desired. It is also noted, that the content code BCP, which stands for Building Construction – Professional, has been approved for use in the PMOSH program. This will allow the School of BC to develop other professional degrees in the future.

Core/Required Courses:

- Special Topics BCP 8803/6100: Fundamentals of Occupational Safety and Health Program Management
  Prerequisites: Admission into PMOSH program
- New course as Special Topics
  Course description: This course introduces the core elements of an effective safety and health management system; central issues critical to each element's proper implementation and OSHA's hierarchy of controls.
  Credit hours: 3
- Special Topics BCP 8813/6200: Industrial Hygiene Principles and Health Hazards
  Prerequisites: BCP 8803/6100
- New course as Special Topics
  Course description: This course provides an overview of the discipline of industrial hygiene: the science of anticipation, recognition, evaluation, communication and control of biological, chemical, physical, ergonomic and psychosocial environmental stressors in, or arising from, the workplace that may result in injury, illness, impairment, or affect the well-being of workers.
  Credit hours: 3
- Special Topics BCP 8823/6300: Hazardous Materials Management
  Prerequisites: BCP 8813/6200
  New course as Special Topics
  Course description: Emphasis will be on the control of hazardous materials through study and application of industry and construction hazardous materials standards; and consensus and proprietary standards relating to the use, storage and transportation of hazardous materials. The course will cover regulatory requirements and industry best practices regarding the use of flammable and combustible liquids, compressed gases, process safety and risk program management, classification of hazardous workplace environments and hazardous waste operations and emergency response.
  Credit hours: 3
- Special Topics BCP 8833/6400: Occupational Safety and Health Principles
  Prerequisites: BCP 8823/6300

- New course as Special Topics
  Course description: This course examines occupational safety and health practices needed to address occupational safety and health issues in the workplace. Students will utilize regulatory standards as a guide to apply policies, procedures, standards and occupational safety and health principles. Industry recognized best practices, origin of the standards, the process and rules of inspections, citations and penalties and polices will be covered.
  Credit hours: 3
- Special Topics BCP 8843/6500: Advanced Safety Principles
  Prerequisites: BCP 8833/6400
  New course as Special Topics
  Course description: Safety and health performance requires much more than programs and regulatory compliance and is defined by more than injuries and illnesses. How to gain a deeper understanding of safety performance and how to implement leading-edge safety systems. The knowledge gained from this course will prepare both general industry and construction participants to take their organizations to the next level of safety performance.
  Credit hours: 3
- Special Topics BCP 8853/6600: Applied Ergonomics
  Prerequisites: BCP 8843/6500
  New course as Special Topics
  Course description: In this course, the participant will learn how to apply ergonomic principles for the reduction of stress and strain on a person's body as well as the control of workplace musculoskeletal and nerve disorders. Concepts such as job hazard analysis and effective control strategies will be covered. Participants will learn how to identify workplace characteristics that may contribute to workplace musculoskeletal and nerve disorders, and develop methods to improve jobs, workstations, and equipment/tooling. Additionally, analysis of manual lifting tasks and estimation of reasonable lifting limits and design of lifting tasks will be covered.
  Credit hours: 3
- BCP 6700: Current issues in occupational safety and health
  Prerequisites: BCP 8853/6600
  New course
  Course description: This course covers the environmental issues related to the performance of buildings and the current issues in workplace safety and health.
  Credit hours: 3
- BCP 6800: Culture & Leadership Influences on Safety & Health
  Prerequisites: BCP 6700
  New course

Course description: Work-related injuries continue to be a major issue for employers and has become a strategic initiative as leaders strive for a safer work environment when more workers are diverse, remote and challenged by external factors. Motivation, communication, investigation, identification and mitigation represent the tip of the iceberg in creating a safety culture that engages the employee at a level that results in reduced workplace accidents, maximum productivity and costs associated with work-related injuries.
Credit hours: 3

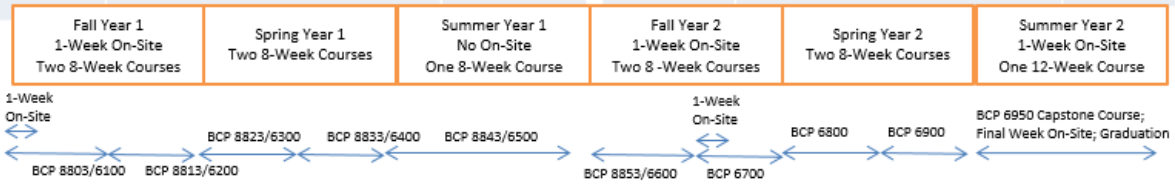
- BCP 6900 Economic Analysis, Risk Management, Risk Financing, & Insurance for Safety Professionals
  Prerequisites: BCP 6800
  New course
  Course description: This course discuses safety programs as investments and their evaluation as investment options. It provides tools to analyze and communicate to financial executives the top benefits of an effective workplace safety program from their financial nature (e.g., increased productivity and reduced costs).
  Credit hours: 3
- BCP 6950: Occupational Safety and Health Capstone
  Prerequisites: All courses in the PMOSH curriculum
  New course
  Course description: This project course is the application of course materials covered in the PMOSH curriculum to a student driven scenario with a simulated business construct.
  Credit hours: 3

Sample Program of Study
A given student cohort would all take the same core classes together. This schedule assumes classes are offered sequentially, one at a time, at the rate of two courses per semester. That is, none of the courses would overlap in time and each would take about 8 weeks to complete.

PMOSH Curriculum Structure

YEAR 1		
Semester	Content	Course
Fall	Fundamentals of Occupational Safety and Health Program Management Industrial Hygiene Principles and Health Hazards	BCP8803/ 6100 BCP8813/ 6200
Spring	Hazardous Materials Management Occupational Health & Safety Principles	BCP8823/ 6300 BCP8833/ 6400
Summer	Advanced Safety Principles	BCP8843/ 6500

YEAR 2		
Semester	Content	Course
Fall	Applied Ergonomics Current Issues in Occupational Health & Safety	BCP8853/ 6600 BCP 6700
Spring	Culture & Leadership Influences on Health & Safety Economic Analysis, Risk Management, Risk Financing, & Insurance for Safety Professionals	BCP 6800 BCP 6900
Summer	Occupational Safety & Health Capstone	BCP 6950



Admissions criteria

The program will have an Admissions Committee within the School of Building Construction in charge of all admission decisions on all applicants. The Admissions Committee will be established by the Academic Program Director and will follow the guidelines set by the Institute.

Students to be admitted to the program must satisfy the following conditions:

- An earned bachelor's degree from an accredited school with a competitive GPA of at least 3.0. The admission committee will have the final decision on rejecting the application, admitting the student, or conditionally admitting the student. In the case of conditional admission, the student is given the opportunity to take two courses and prove he or she can do well in the two courses, so that he or she can continue in the degree program.
- Proof of English Proficiency (i.e., TOEFL). The minimum TOEFL score for graduate admission required by Georgia Tech is 550 paper-based, 213 computer-based, or 79 internet-based. TOEFL requirements will be exempted if the applicant earned his or her degree from a university where English is the language of instruction.
- At least one year of professional work experience (post-Bachelor's degree) in a safety and health general industry or construction related fields.

- Three descriptive letters of recommendation. Letters are expected from the applicant's past and current supervisors, who can evaluate the applicant's skills and capabilities and describe why the individual should be considered for admission.
- A required essay/statement of purpose (no more than one page). The essay/statement of purpose should include: why the applicant should be considered, what experience the applicant can bring to the program and what the applicant expects to take away from the program to enhance his or her professional career.
- A resume, including work and educational experience.
- An official transcript sent from each accredited school from which the candidate has received a degree.

Students will be admitted in cohorts, and all members of a cohort will take the same nine required courses and one industry specific course in either general industry or construction.

Note: The Committee suggested that the School of Building Construction monitor applicants and performance of admitted students in relation to the TOEFL score to determine if the minimum acceptable score should be higher. What is requested seems low. Since there is no Institute minimum, the School has the option of setting this requirement. The Graduate Committee will take this up for broader discussion at a later time since it has come up recently related to other proposals and Committee members expressed similar concerns.

6. The College of Computing made a presentation in regard to a possible upcoming degree modification proposal for the MS in Information Security. The overarching question was whether a possible proposal that would change the name of the degree and add options within the degree made sense as a degree modification.

   In some ways, this appeared to be a situation where there may be three different degrees that could come out of it. By also adding other Schools that would partner with the College of Computing, the program would become multi-disciplinary, but also appears to vary in terms of what each participant would want in the degree.

   After a lengthy discussion, the Committee suggested that there might be a way forward with the proposal. Whether the final proposal would involve a degree modification that would have to be approved by the Graduate Committee, the Academic Faculty Senate, and likely the Board of Regents or a new degree (or degrees) proposal that would have to first involve a prospectus that would need Graduate Committee and BOR approval before a formal proposal could be submitted remains unclear at the moment.

Student Petitions

1. A motion was made to deny a request for a late withdrawal from the Fall 2015 term. The motion was seconded and approved.

Adjourned,

Reta Pikowsky, Registrar
Secretary