

MASTER OF INTERNATIONAL CONSTRUCTION MANAGEMENT

*"Linking Talent and Opportunity through
Graduate Education"*



M.E. Rinker, Sr. School of
Construction Management
UNIVERSITY of FLORIDA



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Charles J. Kibert, PhD, PE

Professor Emeritus

M.E. Rinker, Sr. School of Construction Management
University of Florida

A Welcome Word from the one of the Founders of the ICM Program

I appreciate this opportunity to welcome you to the University of Florida and, more specifically, to the Rinker School's International Construction Management (ICM) graduate program. I would like to briefly tell you more about the very special opportunities afforded to you by your participation in this innovative and dynamic graduate program.

First, the ICM graduate program is an online graduate program tailored specifically for experienced construction industry professionals with busy work schedules and other obligations, which make it problematical for them to physically attend classes. It was the first established online graduate program in construction management and of course we believe it is in the top tier of advanced educational programs serving the construction industry.

Second, because the ICM graduate program is designed specifically for experienced industry professionals, the prerequisites that the on-campus construction management graduate program would require are waived. This means that we assume that, based on 5 years or more of industry experience, those of you without construction management undergraduate degrees have gained knowledge from your jobs that covers the essential elements of construction management such as estimating, scheduling, and safety.

Third, based on your industry experience and performance, the ICM admissions process will examine your university transcripts in light of your employment resumé in terms of longevity, responsibilities, and overall track record.

The ICM program has two major categories of graduate education that are being offered at this time:

1. Certificates in Project Management and Sustainable Construction
2. A Master of International Construction Management (MICM)

The ICM program faculties are seasoned industry and academic professionals with extensive experience tackling industry issues and conducting research on cutting edge issues and technologies. We are dedicated to helping you improve your hiring and promotion prospects. Investing your time and resources in obtaining graduate education is an excellent investment on your part and will very positively influence your career. For example, studies indicate that within 5 years of earning a Master's degree, the individual is likely to be earning on the average 15% more than their peers who have just a Bachelor's degree. As noted above, achieving graduate credentials is also an excellent strategy for better positioning yourself for promotion within your organization. Completing graduate education programs marks you as an especially knowledgeable individual and helps distinguish as you pursue your career.

Again, welcome to the ICM program and we wish you the best of luck as you pursue the MICM or one of the ICM certificate programs. We are here to help you advance your careers and gain the advanced knowledge necessary to do so. Please don't hesitate to contact us if you have questions or if we can assist you in any way.

Charles J. Kibert, PhD, PE

Professor Emeritus

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History of the School

University of Florida

Established in 1853, the University of Florida (UF) is ranked number five among public universities in the 2022 U.S. News and World Report Best Colleges rankings. Its 46,000 students come from all 50 U.S. states and more than 100 countries around the world. The 2,000-acre campus has nearly 5,000 distinguished faculty members with more than US\$724 million in sponsored research funding. The university comprises 16 colleges with more than 200 research, service and education centers, bureaus and institutes. UF currently offers 100 undergraduate degree programs, more than 200 graduate programs and 30 certificates.

M.E. Rinker, Sr. School of Construction Management

The M. E. Rinker, Sr. School of Construction Management is the nation's longest running Construction Management program at the university level, founded in 1935 as a degree program in architecture. In 1948 the Master's degree program was created as the first in the US. A rapid growth of enrollment took place after the Second World War and by 1957 the number of building construction students and faculty were large enough to justify departmental status. In 1976, the Department formally achieved School status within the College of Architecture.

Coincidentally, 1976 was also the year that the Construction Management program was accredited by the American Council for Construction Education. In 1977, with over 1800 alumni, the School was recognized by the Associated General Contractors of America as an "outstanding program." In 1988, a doctoral program was initiated within the College of Architecture with a concentration in Construction Management - again the first in the US. In 1989, the School was renamed the M. E. Rinker, Sr. School of Building Construction in recognition of "Doc" Rinker's generous contributions to the School. In 1997, a combined degree program was established which allows CM seniors to complete courses toward both their BS and MSCM/MCM degrees at the same time. In 1999 distance education degree programs were introduced leading to a Master of International Construction Management and a BS in Fire and Emergency Sciences.

In July 2000, the name of the College of Architecture was changed to the College of Design, Construction and Planning. At the same time, the Department of Architecture became the School of Architecture. In addition to the Rinker School, there are four other units in the College of Design, Construction, and Planning: Architecture, Interior Design, Landscape Architecture, and Urban and Regional Planning. In 2003, the Rinker School moved into a new, state-of-the-art 50,000 square foot facility, Rinker Hall. In 2014, the Rinker School was renamed the M. E. Rinker, Sr. School of Construction Management.

Today, the original building construction curriculum has evolved from a variation of architecture to a full-fledged academic discipline with a strong emphasis on construction management. The three main segments of the curriculum - science, techniques, and management - have a strong relationship to similar divisions employed in industry and academia throughout the world of construction management.

Why Pursue the Master of International Construction Management (MICM)?

Due to the continued strong growth rate of international construction markets, many companies are doing business across the international dateline. For the first time, the World Trade Organization and Washington Accord treaties permit construction industry professionals to practice their professions outside of their country of citizenship. As a result, corporations and individuals now have enormous opportunities to participate in the booming national and international markets for construction services. Importantly, construction professionals now need to understand how the industry operates on a global basis to be able to capitalize on these unprecedented possibilities.

The University of Florida can help you and your company thrive in this new era by offering you the opportunity to earn a Master of International Construction Management (MICM), a graduate program designed to fit your schedule and your needs. The MICM degree offers you the tools and advanced knowledge you will need to qualify for the challenging positions being created by positive industry growth trends. This advanced graduate degree will also prepare you for positions of increasing responsibility in dynamic, competitive organizations. Using the latest on-line technology and delivered by a highly experienced and internationally renowned faculty, the MICM degree eliminates the need to physically attend structured classes.

The MICM program is intended for future leaders of the construction industry, people who will be making vital decisions about the business of construction. These are valuable assets who possess talents that a company often cannot afford to lose for any significant period of time. To help emerging leaders cope with the dilemma of gaining a graduate degree while continuing to contribute to their organization, the University of Florida's MICM program is delivered via the Internet to the student's location on a schedule compatible with their busy lives.

Objectives

The objectives of the MICM program include:

- Providing construction professionals with the tools and knowledge they will need to address the many complex, multi-disciplinary problems experienced in large, complex construction projects.
- Providing construction professionals with advanced education in project management, sustainable construction, construction safety, information technology, modular design and construction, advanced construction technologies, and other key areas that enhance the construction professional's career opportunities.
- Providing an advanced degree for professionals who aspire to attain higher level, executive management positions in construction companies and construction related organizations.

Mission Statement

The mission of the M.E. Rinker1; Sr. School of Construction Management is to be the center of excellence for construction. The Rinker School will pursue this by:

- Promoting professional and ethical behavior in education and practice,
- Advancing the industry by creating new knowledge through research and scholarly activities,
- Educating individuals in the principles, knowledge and skills required to be successful in their professional careers, and
- Providing service and transferring knowledge to the citizens of Florida, the construction industry, professional societies, the nation, and the world.

ICM Degrees and Certificates

Masters of International Construction Management (MICM)

Earn a valuable graduate degree in two years

To earn a Master's degree of International Construction Management (MICM) degree, students must successfully complete 11 ICM courses. Of these 11 courses, only two are required: ICM 6930 (Research Methods) and ICM 6934 (Directed Research). The remaining 9 classes are electives that the students will select based on their priorities and interests. To complete the MICM degree, students should make plans to be on campus for one day during their last semester to present their ICM 6934 research report to a committee of three professors. The MICM degree is classified by the United States government as a degree that involves science, technology, engineering, and math (STEM).

Certificate in Project Management

Enhance your project management skills and credentials in one year

The ICM Project Management Certificate requires four courses and can be completed in just two semesters. This Certificate will help prepare individuals to manage of complex construction projects by providing them the tools they will need to optimize technical, financial, and human resources. To receive this certificate, students must successfully complete the following courses:

- ICM 6420 Commercial Management and Cost Control
- ICM 6440 Construction Value Management
- ICM 6710 Construction Human Resource Management
- ICM 6761 Advanced Planning, Scheduling and Logistics

Certificate in Sustainable Construction

Gain a deep familiarity with green construction and pivotal issues such as climate change.

The Certificate in Sustainable Construction will provide the student with the skills and knowledge to develop and manage green projects, a market that now exceeds 50% of all commercial/institutional construction in the U.S. Students will gain a deeper understanding of the ethics of sustainability, key drivers such as climate change, and building rating systems such as LEED, Green Globes, and the Living Building Challenge. Those enrolled in the program will gain an appreciation of life cycle assessment, life cycle costing, energy and carbon modeling, and the tools available to assist students in successfully delivering a green building project. The Certificate requires the completion of four ICM courses:

- ICM 6440 Construction Value Management
- ICM 6680 Principles of International Sustainable Construction
- ICM 6682 Construction Ecology and Metabolism
- ICM 6684 High Performance Green Building

Program Course Descriptions

ICM 6642: Lean for Construction

Lean construction addresses the application of lessons on value, value stream, flow, pull processes and the goal for perfection derived from the automobile industry and their application in construction delivery systems.

ICM 6420: Commercial Management and Cost Control

The course addresses budgeting, estimating, and principles of cost analysis for international projects. It covers a systematic approach to managing cost throughout the life cycle of any construction project. It provides a platform where students will learn to apply cost engineering techniques used during preconstruction, construction and post construction. It also introduces cost elements for life cycle of assets and how cost is measured, applied, and recorded to derive the total activity cost in a construction project.

ICM 6440: Construction Value Management

This course describes and demonstrates the classic Value Engineering (VE) principles, their practical applications for construction managers, contractors, and other construction functions. At the completion of the course, students will be able to demonstrate their ability to understand the concepts of VE with emphasis on Functional Analysis and Life Cycle Costing, the use of VE in construction industry; to apply VE to construction company business and industry technical situations; and to understand and to be able to apply VE problem solving techniques as a management tool. As a part of the coursework students conduct full-scale VMNE studies of recent international projects.

ICM 6680: Principles of International Sustainable Construction

This course addresses good indoor and outdoor environments, renewable resources, resource conservation, low impact construction methods, life cycle assessment, and green building certification.

ICM 6682: Construction Ecology and Metabolism

Ecological theory and developments in industrial ecology are covered in this course, along with addressing the use of ecology as a model for a low-impact built environment.

ICM 6684: High-Performance Green Building Delivery Systems

The course provides an overview of the emerging delivery systems for high-performance green buildings and the basis on which their sustainability can be evaluated. LEED, Green Globes, and Living Building Challenge are discussed in detail.

ICM 6710: Construction Human Resource Management

The course examines human behavior and its impact on the construction management processes. It includes theories of human behavior and the influences of leadership, organization, environment, motivation, and culture.

ICM 6716: Construction Productivity and Methods Improvement

The course aims to examine the factors that impact construction productivity, describes the use of management tools to develop construction productivity improvement programs, discusses methods for performing construction loss calculations, and covers strategies for developing productivity improvement programs.

ICM 6750: Managing Construction Information Technology

Applications of computer and information systems in international construction industry. The goal of the course is to explain the evolution of information technology and its dramatic effect on structure, process, and performance of the projects.

Program Course Descriptions

ICM 6761: Advanced Planning, Scheduling, and Logistics

This course provides students with a comprehensive understanding of the problems associated with the planning and control of a project, and the methods and tools available to develop an effective solution to overcome these problems. It includes scheduling methods, including overall durations, and phasing and review points; principles of logistics planning; and the practicalities of detailed network scheduling.

ICM 6762: Construction Risk Management

Construction Risk Management provides students with a better understanding of construction risks and strategies for mitigating, transferring and ensuring the risks associated with construction processes. The course refers to an overview of what is meant by risk and uncertainty and influences in international construction industry.

ICM 6770: Advanced Project Safety Management

Covers international, governmental, and construction industry requirements of safety, loss control regulations and project responsibilities.

ICM 6772: International Strategic Management

The course describes performance measurements and evaluation processes for strategic management. As a part of coursework students assess international business opportunities, formulate a business strategy, and learn how project strategies should be developed to the best advantage of a company.

ICM 6910: Supervised Research

In this course the student solicits an instructor to supervise research into a mutually agreed topic that will result in the production of an academic paper or report. This could include research into cutting edge topics or construction industry issues that may improve the health, safety, productivity, or technology of construction companies and their workforce.

ICM 6930: Construction Communication and Research

ICM 6930 is a research methods course (prerequisite to ICM 6934) and should be taken at least one semester before a student plans to graduate.

ICM 6934: International Construction Research

ICM 6934 consists of conducting research on a selected topic, writing a report, and presenting that report on campus. Students should only register for this course in their last semester (the semester in which they are graduating). Students should make plans to be on the University of Florida campus for one day during their last semester to present their research report to a committee, consisting of three professors.



Admission requirements

MICM program*:

- An undergraduate degree from a regionally accredited university
- Five years of construction industry experience, or less if the undergraduate degree is in a field related to construction
- An undergraduate GPA of 3.0 on a 4.0 scale
- Three letters of recommendation
- A statement of purpose
- A current resumé

Certificate Seekers*:

- An undergraduate degree from a regionally accredited university
- Three years of construction industry experience, or less if the undergraduate degree is in a field related to construction
- A GPA of 3.0 on a 4.0 scale
- One letter of recommendation
- A statement of purpose
- A current resumé

*International applicants who are not from exempt counties also need to send English Language proficiency test scores to the University of Florida. A TOEFL score of 80 or higher on the Internet-Based exam (550 on the Paper-Based), or a 6.0 or higher on the IELTS, is required. TOEFL scores should be sent to School code 5812. IELTS scores should be mailed to the UF Office of Admissions directly from the Cambridge Testing Center. For the list of exempt countries, and for the address to mail IELTS scores, reference the UF Office of Admissions website, <http://admissions.ufl.edu>.

Application Deadlines

Spring admission - October 1 of the previous year

Summer admission - March 1 of the same year

Fall admission - June 1 of the same year

MICM degree:

The online application for the MICM program will allow students to upload their statement of purpose and resumé. They also have the option to upload unofficial copies of their transcript materials, which may be used for initial review purposes. Accepted applicants must mail hardcopies of their undergraduate transcripts and degree certificates to the Office of Admissions. The mailing address for the Office of Admissions is:

Office of Admissions
201 Criser Hall - PO Box 114000
Gainesville, FL 32611-4000.

The online Master's degree application will also allow applicants to enter the email addresses of their references. The application will then send a link with instructions on how the referee can upload their letter directly to the online application. Students cannot upload the letters themselves, so it is important that they enter the correct email addresses for their referees.

Non-degree options:

Certificate applicants should send a statement of purpose, resumé, and one letter of recommendation to the admissions officer. They also have the option to upload unofficial copies of their transcript materials, which may be used for initial review purposes. Accepted applicants must mail hardcopies of their undergraduate transcripts and degree certificates to the Office of Admissions

University of Florida - M.E. Rinker School Faculty

Rinker School Faculty	Areas of Expertise and Research Interest
Raymond Issa , Professor, Center Director PhD, "Civil Engineering", Mississippi State University; JD, University of Memphis; MS, BS, "Civil Engineering", Mississippi State University; Professional Engineer	Construction Law; Structural Analysis and Design; Database Systems; Intelligent Computing; Construction Ontologies and Semantics; Neural Networks; Virtual and Augmented Reality; Building Information Modeling (BIM); Facilities Management; Laser Scanning Applications; Data Mining; Smart Devices and UAV Applications in Construction; Data Interoperability; Flexible and Dynamic Process Modeling and Workflow Integration; and Operations, Maintenance, Damage Assessment, Repair and Rehabilitation of Structures.
Ravi Srinivasan , Associate Professor and Director of Graduate Programs and Research PhD and MS, "Architecture", University of Pennsylvania; BS, "Civil Engineering", University of Florida	Low/Net Zero Energy (NZE) Buildings
Abdoj Chini , Professor, Associate Dean PhD, "Structural Engineering", University of Maryland (College Park); MS, "Structural Engineering", George Washington University; BS, "Civil Engineering", Tehran University; Licensed Professional Engineer	Construction Quality Management, Concrete Properties, Recycling and Reuse of Construction Materials, and Deconstruction
Ian Flood , Professor PhD, BSc, "Building Technology", University of Manchester Institute of Science and Technology	Empirical Modeling of Engineered Systems; Computer-based Modeling of Construction Processes, and Development of Web and Interactive Educational Techniques
James Sullivan , Lecturer and Director of Undergraduate Program PhD, MS, BS, "Building Construction", University of Florida; BA, "Marketing", University of Florida; Licensed General Contractor	Sustainable Construction, Estimating, Techniques, Worker Productivity Training
Robert Ries , Professor PhD, MS, "Architecture", Carnegie-Mellon University; B. "Architecture", Pratt Institute	Green Building, Sustainable Development, Life Cycle Assessment in the Construction Process
Russell Walters , Lecturer PhD, MS, "Electrical Engineering", University of Florida; BS, "Electrical Engineering", University of Illinois	Construction information technology, Alternative Energy systems, Construction contract administration, Emerging issues in Construction Management

UF Graduate School Regulations

The student is responsible for becoming informed and observing all program regulations and procedures. The student must be familiar with Graduate Catalog general regulations and requirements, specific degree program requirements, and offerings and requirements of the major academic unit. Rules are not waived for ignorance.

Key information is contained or disseminated through several electronic sites. It is the responsibility of each student to regularly check the Graduate Information Management System (GIMS) for accuracy and currency of the degree program and associated milestones. In addition, each student is required to create, maintain, and regularly check a GatorLink e-mail account. Critical information is sent directly to GatorLink accounts.

Catalog Year

The catalog year determines the set of academic requirements that must be fulfilled for graduation. Students graduate under the catalog in effect when they first enroll as degree-seeking students at UF, provided they maintain continuous enrollment. Students who are not registered for two or more consecutive terms (including any summer term) must reapply for admission and, if readmitted, will be assigned the catalog in effect when enrollment is resumed. With the approval of their college dean's office, students may opt to graduate under the requirements of a later catalog, but they must fulfill all graduation requirements from that alternative year. The University will make every reasonable effort to honor the curriculum requirements appropriate to each student's catalog year. However, courses and programs are sometimes discontinued, and requirements may change as a result of curricular review or actions by accrediting associations and other agencies.

Academic Honesty

In 1995 the UF student body enacted an honor code and voluntarily committed itself to the highest standards of honesty and integrity. When students enroll at the university, they commit themselves to the standard drafted and enacted by students.

Preamble: In adopting this honor code, the students of the University of Florida recognize that academic honesty and integrity are fundamental values of the university community. Students who enroll at the university commit to holding themselves and their peers to the high standard of honor required by the honor code. Any individual who becomes aware of a violation of the honor code is bound by honor to take corrective action. The quality and value of a University of Florida education is dependent upon community acceptance and enforcement of the honor code.

The Honor Pledge: We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity. On all work submitted for credit by students at the university, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

The university requires all members of its community to be honest in all endeavors. A fundamental principle is that the whole process of learning and pursuit of knowledge is diminished by cheating, plagiarism, and other acts of academic dishonesty. In addition, every dishonest act in the academic environment affects other students adversely, from the skewing of the grading curve to giving unfair advantage for honors or for professional or graduate school admission. Therefore, the university will take severe action against dishonest students. Similarly, measures will be taken against faculty, staff and administrators who practice dishonest or demeaning behavior.

Grades

Passing, Non-Punitive and Failing Grades: The Office of the University Registrar records student grades. The word "credit" refers to one semester hour, generally representing one hour per week of lecture or two or more hours per week of laboratory work.

The only passing grades for graduate students are A, A-, B+, B, B-, C+, C, and S. Grades of B-, C+ or C count toward a graduate degree if an equal number of credits in courses numbered 5000 or higher have been earned with grades of B+, A- and A, respectively. Grade points are not given for Sand U grades; Sand U grades are not used to calculate grade point averages. All letter-graded courses eligible to count toward the graduate degree, except 1000- and 2000-level courses, are used to calculate the cumulative grade-point average. Letter grades of C-, D+, D, D- or E are not considered passing at the graduate level, although the grade points associated with these letter grades are included in grade point average calculations.

Satisfactory/Unsatisfactory: Grades of S and U are the only grades awarded in courses numbered BCN 6910 (Supervised Research), BCN 6940 (Supervised Teaching), BCN 6971 (Research for Master's Thesis), BCN 6972 (Engineer's Research), and BCN 7979 (Advanced Research).

All language courses regardless of level may be taken SIU if the courses are not used to satisfy a minor, with approval from the student's supervisory committee chair and the instructor of the course. SIU approval should be made by the published deadline date. All 1000- and 2000- level courses may be taken SIU. No other courses (graduate, undergraduate, or professional) may be taken for an SIU grade.

Deferred grade H: The grade of H (deferred) is not a substitute for a grade of S, U, or I. Courses for which H grades are appropriate must be so noted in their catalog descriptions, and must be approved by the Graduate Curriculum Committee and the Graduate School. This grade may be used only in special situations where the expected unit of work may be developed over a period of time greater than a single term. All grades of H must be removed before a graduate degree can be awarded.

Incomplete grades: Grades of I (incomplete) received during the preceding term should be removed as soon as possible. Grades of I carry zero grade points and become punitive after one term. All grades of I must be removed or petitioned before a graduate degree can be awarded.

Grades and Grade Points

A	A-	B+	B	B-	C+	C	C-	D+	D
4.00	3.67	3.33	3.00	2.67	2.33	2.00	1.67	1.33	1.00
D-	E	WF	I	NG	S-U				
0.67	0.00	0.00	0.00	0.00	0.00				

Non-Punitive Grades and Symbols:

Zero Grade Points - Not Counted in GPA

W=Withdrew

U = Unsatisfactory

H = Deferred grade assigned only in approved sequential courses or correspondence study

N* = No grade reported

I* = Incomplete

Failing Grades:

Zero Grade Points - Counted in GPA

E =Failure

WF = Withdrew failing NG= No grade reported I= Incomplete

Unsatisfactory Progress or Unsatisfactory Scholarship

Any graduate student may be denied further registration if progress toward completing the program becomes unsatisfactory to the academic unit, college, or Dean of the Graduate School.

Unsatisfactory scholarship is defined as failure to maintain a B average (3.00) in all work attempted.

Graduate students need an overall GPA of 3.000 truncated and a 3.00 truncated GPA in their major (and in the minor, if a minor is declared) at graduation. Students with less than a 3.00 GPA may not hold an assistantship or fellows



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