RAIKES SCHOOL OF COMPUTER SCIENCE AND MANAGEMENT (RAIK)

**RAIK 181H Honors: Foundations of Business I**
**Crosslisted with:** BSAD 181H
**Prerequisites:** Good standing in the University Honors Program; admission to the Raikes School of Computer Science and Management.
**Description:** Introduction to financial accounting, accounting systems, basic finance, management and information systems. Content integration and application, problem-solving and situational analysis.
**Credit Hours:** 3
**Max credits per semester:** 3
**Max credits per degree:** 3
**Format:** LEC
**Prerequisite for:** ABUS 341, MRKT 341; ACCT 202; ACCT 308; ACCT 309; ACCT 313; BLAW 371; BLAW 371H; BLAW 372; ECON 311; MNGT 301; MNGT 301H; MNGT 475H; RAIK 341H; MRKT 341H; RAIK 341H; SCMA 331; SCMA 335; SCMA 350; SCMA 350H

**RAIK 182H Honors: Foundations of Business II**
**Crosslisted with:** BSAD 182H
**Prerequisites:** Good standing in the University Honors Program; admission to the Raikes School of Computer Science and Management and BSAD/RAIK 181H.
**Description:** Introduction to managerial accounting and microeconomics. Continuation of management, information systems and accounting systems topics. Content integration and application, problem-solving and situational analysis.
**Credit Hours:** 3
**Max credits per semester:** 3
**Max credits per degree:** 3
**Format:** LEC
**Prerequisite for:** ABUS 341, MRKT 341; AECN 325, MRKT 325; ACCT 202; ACCT 308; ACCT 309; ACCT 313; BLAW 371; BLAW 371H; BLAW 372; ECON 311; ECON 321; ECON 322; ECON 323; ECON 340; ECON 371; ECON 381; ECON 388; ECON 389; FINA 307; FINA 307H; MNGT 301; MNGT 475H; RAIK 341H; MRKT 341H; SCMA 331; SCMA 335; SCMA 350; SCMA 350H

**RAIK 183H Honors: Computer Problem Solving Essentials**
**Crosslisted with:** CSCE 183H
**Prerequisites:** Good standing in the University Honors Program; admission to the Jeffrey S. Raikes School of Computer Science and Management.
**Description:** Introduction to problem solving with computers. Problem analysis and specification, algorithm development, program design, and implementation. JAVA in a Windows platform.
**Credit Hours:** 4
**Max credits per semester:** 4
**Max credits per degree:** 4
**Format:** LEC
**Prerequisite for:** ECON 215; MATH 380, MATH 380H, STAT 380, STAT 380H, RAIK 270H; MRKT 350; SCMA 250

**ACE:** ACE 3 Math/Stat/Reasoning

**RAIK 184H Honors: Software Development Essentials**
**Crosslisted with:** CSCE 184H
**Prerequisites:** Good standing in the University Honors Program; admission to the Jeffrey S. Raikes School of Computer Science and Management; and CSCE/RAIK 183H.
**Description:** Problem solving with computers. Problem analysis and specification, data structures, relational databases, algorithm development, and program design and implementation. Discrete mathematics topics, propositional and predicate logic, sets, relations, functions, and proof techniques. Software Development Principles.
**Credit Hours:** 4
**Max credits per semester:** 4
**Max credits per degree:** 4
**Format:** LEC

**RAIK 185H Honors: Foundations of Leadership I**
**Crosslisted with:** BSAD 185H
**Prerequisites:** Good standing in the University Honors Program; Admission to the Raikes School of Computer Science and Management.
**Description:** Introduction to personal development and its application to leadership.
**Credit Hours:** 1
**Max credits per semester:** 1
**Max credits per degree:** 1
**Format:** LEC

**RAIK 186H Honors: Foundations of Leadership II**
**Crosslisted with:** BSAD 186H
**Prerequisites:** Admission to the Raikes School of Computer Science and Management and BSAD/RAIK 185H.
**Notes:** Second course in the Raikes School leadership core. BSAD/RAIK is 'Letter grade only'.
**Description:** Continued pursuit and analysis of personal development and its application to leadership. Introduction to teams.
**Credit Hours:** 1
**Max credits per semester:** 1
**Max credits per degree:** 1
**Format:** LEC

**RAIK 187H Honors: Introductory Communication Seminar I**
**Crosslisted with:** JGEN 187H
**Prerequisites:** Good standing in the University Honors Program and admission to the Raikes School of Computer Science and Management.
**Description:** Introduction to oral and written communication within the context of the Raikes School. Basics of writing, editing and presentation.
**Credit Hours:** 1
**Max credits per semester:** 1
**Max credits per degree:** 1
**Format:** LEC

**ACE:** ACE 2 Communication Competence

**RAIK 188H Honors: Introductory Communication Seminar II**
**Crosslisted with:** JGEN 188H
**Prerequisites:** Good standing in the University Honors Program; admission to the Raikes School of Computer Science and Management; JGEN/RAIK 187H.
**Description:** Basics of writing, editing, and presentation.
**Credit Hours:** 2
**Max credits per semester:** 2
**Max credits per degree:** 2
**Format:** LEC

**ACE:** ACE 2 Communication Competence
RAIK 270H Statistics and Applications
Crosslisted with: MATH 380, MATH 380H, STAT 380, STAT 380H
Prerequisites: RAIK 183H and MATH 107/107H
Notes: Credit toward the degree can not be earned in STAT 218 if taken after or taken in parallel with STAT/MATH 380.
Description: Probability calculus; random variables, their probability distributions and expected values; t, F and chi-square sampling distributions; estimation; testing of hypothesis; and regression analysis with applications.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: ABUS 341, MRKT 341; BLAW 371; BLAW 371H; BLAW 372; ECEN 325; ECEN 355; ECEN 850, ECEN 450; ECON 311; FINA 361; FINA 361H; MATH 809, MATH 409; MECH 343; MNGT 301; MNGT 301H; MRKT 345; MRKT 350; MRKT 446; SCMA 331; SCMA 335; SCMA 350; SCMA 350H; SCMA 350L
ACE: ACE 3 Math/Stat/Reasoning
Groups: Advanced Mathematics Courses

RAIK 281H Honors: Business Systems and Operations I
Crosslisted with: BSAD 281H
Prerequisites: Good standing in the University Honors Program; admission to the Raikes School of Computer Science and Management and BSAD/RAIK 182H.
Description: Focus on operations management. Introduction to advanced management principles and accounting system development. Content integration and application, problem-solving and situational analysis.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: MNGT 475H, RAIK 476H

RAIK 282H Honors: Business Systems and Operations II
Crosslisted with: BSAD 282H
Prerequisites: Good standing in the University Honors Program; admission to the Raikes School of Computer Science and Management and BSAD/RAIK 281H.
Description: Continuation of operations management topics including advanced management principles and accounting system development. Content integration and application, problem-solving and situational analysis.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: ABUS 341, MRKT 341; ACCT 308; ACCT 309; ACCT 313; BLAW 371; BLAW 371H; BLAW 372; MNGT 301; MNGT 301H; SCMA 331; SCMA 335; SCMA 350; SCMA 350H

RAIK 283H Honors: Foundations of Computer Science
Crosslisted with: CSCE 283H
Prerequisites: Good standing in the University Honors Program; admission to the Jeffrey S. Raikes School of Computer Science and Management; and CSCE/RAIK 184H.
Description: Advanced data structures and algorithms that solve common problems and standard approaches to solving new problems. Analysis and comparison of algorithms, asymptotic notation and proofs of correctness. Discrete mathematics. Induction and principles of counting and combinatorics as foundation for analysis.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: CSCE 411H, RAIK 411H; CSCE 476H

RAIK 284H Honors: Foundations of Computer Systems
Crosslisted with: CSCE 284H
Prerequisites: Good standing in the University Honors Program; admission to the Jeffrey S. Raikes School of Computer Science and Management; and CSCE/RAIK 283H.
Description: Introduction to fundamental organization and structure of computer systems. Boolean logic, data representation, processor organization, input/output, memory organization, system support software and communication.
Credit Hours: 4
Max credits per semester: 4
Max credits per degree: 4
Format: LEC

RAIK 285H Honors: Applications of Leadership I
Crosslisted with: BSAD 285H
Prerequisites: Admission to the Raikes School of Computer Science and Management and BSAD/RAIK 186H.
Description: Making sense of yourself and others. Applications to team communication and shared leadership development.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: LEC

RAIK 286H Honors: Applications of Leadership II
Crosslisted with: BSAD 286H
Prerequisites: Admission to the Raikes School of Computer Science and Management and BSAD 285H/RAIK 285H.
Description: Continued making sense of yourself and others. Further applications to team communication and shared leadership development.
Credit Hours: 0
Max credits per semester.
Max credits per degree:
Format: LEC
RAIK 287H Honors: Applied Communication Seminar I
Crosslisted with: JGEN 287H
Prerequisites: Good standing in the University Honors Program; admission to the Raikes School of Computer Science and Management; JGEN/RAIK 188H.
Description: Application of oral and written communication within the context of the Raikes School of Computer Science and Management. Professional writing and oral presentations.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: LEC
ACE: ACE 1 Writing

RAIK 288H Honors Business Writing
Crosslisted with: BSAD 220H
Prerequisites: Open to CBA Honors Academy Students or Raikes School of Computer Science and Management students in good standing or by permission. Sophomore standing; ENGL150/ENGL150H or ENGL151/ENGL151H.
Description: Principles of effective written business communication. Focus on effective writing strategies used in business disciplines.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

RAIK 341H Honors: Marketing
Crosslisted with: MRKT 341H
Prerequisites: CBA Hon or Raikes in good standing or permission. SO; 2.5 GPA; Bus Qual (MATH104 or 106/106B or 107 or 208; BSAD220; ACCT201 and 202; ECON211 and 212; ECON215 or equivalent.) Prereqs differ for RAIKES, ACTS, and ABUS majors - see bulletin for exceptions.
Notes: Cannot be taken Pass/No Pass.
Description: The marketing system, its relations with the socioeconomic system, and the influences of each upon the other. Evolution and present structure of marketing institutions and processes. Customer attributes and behavioral characteristics, and how a marketing manager responds to these in the design of marketing strategies, using research, product development, pricing, distribution structure, and promotion.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: MNGT 475, MNGT 875; MNGT 475H, RAIK 476H; MRKT 345; MRKT 346, SCMA 346; MRKT 347; MRKT 350; MRKT 355; MRKT 399; MRKT 425; MRKT 428; MRKT 442; MRKT 443; MRKT 444; SCMA 444; MRKT 446; MRKT 449; MRKT 453; MRKT 458; MRKT 490; SCMA 432

RAIK 370H Data and Models II: Data Science Fundamentals
Crosslisted with: CSCE 370H
Prerequisites: Good standing in the University Honors Program or by invitation; admission to the Jeffrey S. Raikes School of Computer Science and Management; and RAIK 270H
Description: Introduction to approaches using data for prediction and learning. Exploration of data for linear and nonlinear data modeling, machine learning, and supportive methods from statistics and numerical methods.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

RAIK 381H Honors: Advanced Topics in Business I
Crosslisted with: BSAD 381H
Prerequisites: Good standing in the University Honors Program and admission to the Raikes School of Computer Science and Management; BSAD/RAIK 282H.
Description: Macroeconomics and introduction to advanced topics in accounting systems, finance, management and information systems. Content integration and application to problem-solving and situational analysis.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Prerequisite for: ECON 365, FINA 365; FINA 338; FINA 363; FINA 375; FINA 401; FINA 450; MNGT 475H, RAIK 476H

RAIK 382H Honors: Advanced Topics in Business II
Crosslisted with: BSAD 382H
Prerequisites: Good standing in the University Honors Program; admission to the Raikes School of Computer Science and Management and BSAD/RAIK 381H.
Description: Microeconomics. Continuation of advanced topics in accounting systems, finance, management and information systems. Content integration and application, problem-solving and situational analysis.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

RAIK 383H Honors: Fundamentals of Software Engineering
Crosslisted with: CSCE 383H
Prerequisites: Good standing in the University Honors Program; admission to the Jeffrey S. Raikes School of Computer Science and Management; CSCE/RAIK 284H.
Description: Proper principles and methods of engineering software. Requirements, design, implementation, management and software evolution.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
RAIK 384H Honors: Applied Numerical Analysis
Crosslisted with: CSCE 384H
Prerequisites: Good standing in the University Honors Program; admission to the Jeffrey S. Raikes School of Computer Science and Management; and CSCE/RAIK 284H; parallel BSAD/RAIK 382H.
Description: Application of established numerical analysis techniques to selected business and finance problems, finite difference applied to standard options or stochastic processes in modeling financial markets.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

RAIK 401H Honors: RAIK Design Studio I
Crosslisted with: BSAD 401H, CSCE 401H, SOFT 401H
Prerequisites: Good standing in the University Honors Program or by invitation; admission to the Jeffrey S. Raikes School of Computer Science and Management; and BSAD/RAIK 282H; and CSCE/RAIK 284H.
Notes: First semester in the Jeffrey S. Raikes School of Computer Science and Management design studio
Description: Application of Raikes School core content in a team oriented, project management setting. Complete projects in consultation with private and public sector clients.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
ACE: ACE 8 Civic/Ethics/Stewardship

RAIK 402H Honors: RAIK Design Studio II
Crosslisted with: BSAD 402H, CSCE 402H, SOFT 402H
Prerequisites: Good standing in the University Honors Program or by invitation; admission to the Jeffrey S.
Notes: Second semester in the Jeffrey S. Raikes School of Computer Science and Management design studio
Description: Application of Raikes School core content in a team oriented, project management setting. Complete projects in consultation with private and public sector clients.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
ACE: ACE 8 Civic/Ethics/Stewardship

RAIK 403H Honors: RAIK Design Studio III
Crosslisted with: BSAD 403H, CSCE 403H, SOFT 403H
Prerequisites: Good standing in the University Honors Program or by invitation; admission to the Jeffrey S. Raikes School of Computer Science and Management; and BSAD/CSCE/SOFT/RAIK 402H.
Notes: Third semester of Jeffrey S. Raikes School of Computer Science and Management design studio sequence. Third semester of Jeffrey S. Raikes School of Computer Science and Management design studio sequence.
Description: Application of Jeffrey S. Raikes School of Computer Science and Management core content in a team oriented, project management setting. Complete projects in consultation with private and public sector clients.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
ACE: ACE 10 Integrated Product

RAIK 404H Honors: RAIK Design Studio IV
Crosslisted with: BSAD 404H, CSCE 404H, SOFT 404H
Prerequisites: Good standing in the University Honors Program or by invitation; admission to the Jeffrey S. Raikes School of Computer Science and Management; and BSAD/CSCE/SOFT/RAIK 403H.
Notes: Fourth semester in the Jeffrey S. Raikes School of Computer Science and Management design studio sequence.
Description: Application of Raikes School core content in a team oriented, project management setting. Complete projects in consultation with private and public sector clients.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
ACE: ACE 10 Integrated Product

RAIK 411H Honors: Data Modeling for Systems Development
Crosslisted with: CSCE 411H
Prerequisites: SOFT 260, CSCE 310, CSCE 310H, CSCE 311, or CSCE 283H. Good standing in the University Honors Program.
Description: Concepts of relational and object-oriented data modeling through the process of data model development including conceptual, logical and physical modeling. Techniques for identifying and creating relationships between discrete data members, reasoning about how data modeling and analysis are incorporated in system design and development, and specification paradigms for data models. Common tools and technologies for engineering systems and frameworks for integrating data. Design and analysis of algorithms and techniques for identification and exploration of data relationships, such as Bayesian probability and statistics, clustering, map-reduce, and web-based visualization.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC

RAIK 476H Honors: Business Policies and Strategies
Crosslisted with: MNGT 475H
Prerequisites: Open CBA Hon, Raikes and Hon students in good & SR standing. 2.5 GPA; major in Col of Bus; BSAD220; ACCT201 & 202; ECON211&212; FINA361; SCMA350&331; MNGT301; MRKT341; or equiv. Prereqs differ for RAIKES, ACTS, & ABUS majors - see bulletin for exceptions
Description: Formulation and application of business policies and strategies; analysis of cases using knowledge acquired in basic courses in accounting, economics, finance, human resources, information systems, marketing, and operations. The "C" complexity of business problems and the interrelationship of business functions.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
ACE: ACE 10 Integrated Product