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.
Notes: First course in the Raikes School core.
Description: Introduction to financial and managerial accounting, and accounting information systems. Content integration and application, problem-solving and situational analysis.
Credit Hours: 4
Max credits per semester: 4
Max credits per degree: 4
Format: LEC
Prerequisite for: RAIK 182H, BSAD 182H; 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.
Notes: Second course in the Raikes School core.
Description: Introduction to microeconomics and macroeconomics. Content integration and application, problem-solving and situational analysis.
Credit Hours: 4
Max credits per semester: 4
Max credits per degree: 4
Format: LEC
Offered: SPRING
Prerequisite for: ABUS 341, MKT 341; BLAW 371; BLAW 371H; BLAW 372; EC3 313; ECON 313; ECON 311; ECON 322; ECON 323; ECON 340; ECON 343; ECON 381; ECON 388; ECON 389; FINA 307, FINA 308; MGMT 301; MGMT 301H; MGMT 475H; RAIK 476H; MKT 341H; MKR 341H; RAIK 281H, BSAD 281H; SCMA 331; SCMA 335; SCMA 350; SCMA 350H
ACE: ACE 6 Social Science

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: CSCE 230; CSCE 230H; CSCE 235, CSCE 235H; ECON 215; MKT 350; RAIK 184H, CSCE 184H; 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
Prerequisite for: BSAD 372H, RAIK 372H; CSCE 231; CSCE 322; CSCE 322H; CSCE 378; CSCE 378H; RAIK 283H, CSCE 283H; SOFT 260H

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
Prerequisite for: RAIK 186H, BSAD 186H

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
Prerequisite for: RAIK 285H, BSAD 285H

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
Prerequisite for: JGEN 188H, RAIK 188H
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: 1  
Max credits per semester: 1  
Max credits per degree: 1  
Format: LEC  

RAIK 270H Statistics and Applications  
Crosslisted with: MATH 380, MATH 380H, STAT 380, STAT 380H  
Prerequisites: A grade of P, C, or higher in MATH 107 or MATH 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  

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: ABUS 341, MRKT 341; BLAW 371; BLAW 371H; BLAW 372; BSAD 371H; BSAD 371H; BSAD 371H; MRKT 370; MRKT 446; SCMA 331; SCMA 335; SCMA 350; SCMA 350L  
ACE: ACE 3 Math/Stat/Reasoning  
Groups: Advanced Mathematics Courses  

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; MRKT 301; MRKT 301H; RAIK 401H; BSAD 401H; BSAD 401H; HSAD 401H; SOFT 401H; 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 351; CSCE 361; CSCE 361H; CSCE 411H; RAIK 411H; CSCE 813; CSCE 476H; RAIK 284H; CSCE 284H  

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  
Prerequisite for: RAIK 383H, CSCE 383H; RAIK 384H, CSCE 384H; RAIK 401H, BSAD 401H, BSAD 401H, SOFT 401H  

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  
Prerequisite for: RAIK 286H, BSAD 286H; RAIK 381H, BSAD 381H  

RAIK 286H Honors: Applications of Leadership II  
Crosslisted with: BSAD 286H  
Prerequisites: Admission to the Raikes School of Computer Science and Management and BSAD/RAIK 285H.  
Description: Continued making sense of yourself and others. Further applications to team and shared leadership communication and 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: Credit toward the degree cannot be earned in both MRKT300 and MRKT341/MRKT341H. 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: BSAD 371H, MRKT 345, 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
Offered: FALL/SPR
Prerequisite for: BSAD 371H, RAIK 371H

RAIK 371H Fundamentals of Management Science
Crosslisted with: BSAD 371H
Prerequisites: Junior standing in the Raikes School of Computer Science and Management and RAIK 270H and RAIK 370H
Notes: Third course in Raikes School Data and Models course sequence.
Description: Focus on time series and random processes, simulation, network models, and constrained optimization for business modeling and decision making.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Offered: SPRING

RAIK 372H Honors: Business Law
Crosslisted with: BSAD 372H
Prerequisites: Admission to the Raikes School of Computer Science and Management and RAIK 184.
Description: Legal, ethical, and social issues related to the development and use of computer technology. Basic legal principles needed to recognize the relevant issues and the legal implications of business situations. Ethical theory, and social, political, and legal considerations. Scenarios in problem areas: privacy, reliability and risks of complex systems, intellectual property, and responsibility of professionals for applications and consequences of their work.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Offered: SPRING
ACE: ACE 8 Civic/Ethics/Stewardship
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 367; FINA 375; FINA 401; FINA 450; MNGT 475H, RAIK 476H; RAIK 382H, BSAD 382H

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
Prerequisite for: CSCE 461, CSCE 861, SOFT 461

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; 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
Prerequisite for: RAIK 402H, BSAD 402H, CSCE 402H, SOFT 402H
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. 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

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; BSAD/CSCE/SOFT/RAIK 402H.
Notes: Second semester in the 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
RAIK 411H Honors: Data Modeling for Systems Development
Crosslisted with: CSCE 411H
Prerequisites: Good standing in the University Honors Program; A grade of "P" or "C" or better in CSCE 310, CSCE 310H, CSCE 311, SOFT 260, SOFT 260H or RAIK 283H.
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
Notes: Cannot be taken Pass/No Pass.
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