

14. MS BAIS Prerequisites Courses for Incoming Students

Incoming students are expected to have the following as prerequisites Courses.

A course in high-level, object-oriented programming language (e.g., C#, C++, Java, and Python) or substantial programming experience;

A course in Information Systems Analysis and Design or equivalent experience;

A course in Database Systems or equivalent experience;

A course in Statistics or equivalent professional qualification or experience A

course in economics, or equivalent professional qualification or experience and

A course in financial accounting.

If you got the admission these required prerequisite courses may be taken simultaneously with courses in the M.S./BAIS major. Prerequisite courses do not count toward the 33 credit hours of course requirements in the M.S./BAIS major.

- Some good classes to start with are:
- Required First Semester Classes (you'll be automatically registered for these courses):
- QMB 6304 – Analytical Methods for Business (if you have met the statistics prerequisite courses)
- ISM 6136 – Data Mining
- ISM 6218 – Advanced Database Administration (if you have met the database prerequisite) o

Additional Courses to Consider:

- ISM 6124 – Systems Analysis and Design (if you have met the systems analysis prerequisite)
- ISM 6155 – Enterprise Information Systems Management
- ISM 6225 – Distributed Information Systems (if you have met the object-oriented programming prerequisite)

Prerequisite Courses Information:

The following are the courses that can be taken to satisfy whatever prerequisites we have assigned to the student. In all cases, you need to complete only one of the courses listed.

Economics

- USF: ECO2013 - Macroeconomics
- Universal Class: All About Economics
- Coursera:
 - Microeconomics
 - Microeconomics Principles

Statistics

- USF: STA 2023, QMB2100, QMB6205
- Coursera:
 - Data Analysis with R Specialization (40 hours)
 - Statistical Inference (54 hours)

Financial Accounting

- USF: ACG2021
- edX: Financial Accounting and Analysis (30 hours)
- Straighterline: Financial Accounting
- Saylor: BUS103: Introduction to Financial Accounting (72 hours)

Database Management

- USF: ISM4212 or ISM6217 Database Design and Administration
- Saylor: CS403 Introduction to Modern Database Systems
- Coursera: Database Management Essentials

Object-Oriented Programming

- USF: ISM3232 (C#)
- ISM4141 (Java)
- ISM 4930 (Python for Analytics)
- Coursera: Python Specialization ([Link](https://www.coursera.org/specializations/python)) – Complete h Course 1 AND Course 2

Systems Analysis and Design

- USF: ISM3113
- Saylor: Software Engineering (41 hours) - [Link](https://learn.saylor.org/course/view.php?id=731)
- Coursera: Software Development Lifecycle ([Link](https://www.coursera.org/specializations/software-development-lifecycle)) – Complete all 4 courses in the sequence

Prerequisite Questions and Answers From Caned Responses file:

Context: Interest in the MS BAIS Program

Question 1: I'm interested in the MS BAIS program. Can you give me more information?

- Answer: Thank you for your interest in our program. Can I ask you to look at the MS BAIS website ([link](https://www.usf.edu/business/graduate/ms-bais/index.aspx)) as it will answer many of the questions you will have? The FAQ page may prove especially useful. Once you have done so, and there are questions remaining, please feel free to contact us again.

Question 2: Where can I find more details about the MS BAIS program?

- Answer: You'll find comprehensive information about the MS BAIS program on our website, which you can visit [here](https://www.usf.edu/business/graduate/ms-bais/index.aspx). The FAQ page might answer many of your questions. Should you have additional inquiries after visiting the website, please feel free to reach back to us.

Context: Prerequisite Review & Orientation

Question 3: Can you do a prerequisite check for me?

- Answer: Thank you for your request to do a prerequisite check. However, according to my records, you have not yet registered for orientation, and I cannot do the prerequisite check until you do so. So, please register for orientation and send me an email once you have done so. I can then do the prerequisite check. Thanks.

Question 4: Why can't my prerequisite check be done?

- Answer: The prerequisite check can only be done after you have registered for orientation. Kindly ensure to register for orientation, and once done, send an email to notify us, allowing us to proceed with your prerequisite check.

Question 5: What happens after the prerequisite review?

- Answer: After we have completed the prerequisite review, we will send you an email with detailed information about any prerequisites you might still need to fulfill, including specific courses or actions that may be required. Should there be any prerequisites that you have already met, they will be filtered out in our communication.

NOTE: "It is indeed possible that certain accomplishments or qualifications in your resume or transcript may have been inadvertently overlooked during our prerequisite check. If you identify such an oversight, please bring it to our attention within 30 days of receiving this email. Please respond directly to this message rather than creating a new email thread."

Context: Once your prerequisite review has been completed, you will receive an email from us detailing the prerequisites you need to satisfy.

Response: I have reviewed your transcripts and resume from your application, and you have the following prerequisites to complete:

- Systems Analysis and Design -- This has to be completed before you can take Advanced Systems Analysis and Design
- Database Design-- This has to be completed before you can take Advanced Database Systems
- Object Oriented Programming -- This has to be completed before you can take Distributed Information Systems
- Economics
- Financial Accounting
- Statistics - This has to be completed before you can take Analytical Methods for Business