

ISBA Major is the New
AIMS Major!

Faculty

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Common Career Paths

- ***IS Analyst/Management Consultant***
 - Help business implement technology solutions by determining project requirements and communicating with stakeholders
- ***Business/Data Analyst***
 - Responsibilities include importing, cleaning, transforming, validating or modeling data with the purpose of understanding or making conclusions from the data for decision making purposes
- ***Application Developer***
 - Use programming languages and source code to create software that meets client business needs and requirements (Data Storage, Apps, Ecommerce sites)
- ***IT Administrator***
 - Responsible for maintaining the company's IT infrastructure including network, databases, servers and security systems

ISBA/AIMS Degrees

Bachelor of Business Administration (BBA)

- Business Core
 - BCOR 2710
 - BCOR 3750
- ISBA/AIMS 3710 (Database)
- ISBA/AIMS 3730 or CMSI (Programming requirement)
- ISBA/AIMS 4797 (Capstone)
- ISBA/AIMS electives

Bachelor of Science (B.S.)

- Business Core
 - BCOR 2710
 - BCOR 3750
- ISBA/AIMS 3710 (Database)
- ISBA/AIMS 4797 (Capstone)
- ISBA/AIMS electives
- 12 units or more of CMSI courses (185 or 1010 required)

AIMS –vs– ISBA Major and a Student's LMU Bulletin Year

- For students who joined LMU before this year under an old bulletin:
 - The AIMS major existed and is therefore still an option to these students
 - The old bulletin AIMS requirements have been replaced with an approved transition plan shown on later slide and now stated in DegreeWorks
- For students who joined LMU before this year under an old bulletin and have already or plan to switch to the ISBA major:
 - You are switching to the AY 2020-21 bulletin and will need **128 units** to graduate
- For new freshmen and students transferring into LMU this year and from here on, they are entering under the AY 2020-21 bulletin:
 - The AIMS major no longer exists and is **not** an option to these students

ISBA B.B.A. Major Requirements for AY20-21 Freshmen, Sophomores and Juniors

- In addition to completing the Business Core, students must complete **at least 5 ISBA** courses (this does **NOT** include CMSI courses or AIMS courses). All ISBA courses must be 4 units.
- Students must complete at least 128 units to graduate.
- Students must submit a capstone proposal that is approved by the capstone instructor in November in order to register for the ISBA 4797 Capstone project which will be taught during spring semester.
- ISBA 3720 (System Analysis & Design- 4 units) and ISBA 4796 (Capstone Prep – 1 unit) are electives that can help students develop the proposal in the fall semester.

ISBA 3710
and
Programming Requirement: ISBA 3730 or CMSI 185/1010



ISBA electives



ISBA 4797
-Capstone Project

ISBA B.S. Major Requirements for AY20-21 Freshmen, Sophomores and Juniors

- In addition to completing the Business Core, students must complete **at least 5 ISBA** courses (this does **NOT** include CMSI courses or AIMS courses). All ISBA courses must be 4 units.
- Students must complete at least 128 units to graduate.
- Students must submit a capstone proposal that is approved by the capstone instructor in November in order to register for the ISBA 4797 Capstone project which will be taught during spring semester.
- ISBA 3720 (System Analysis & Design- 4 units) and ISBA 4796 (Capstone Prep – 1 unit) are electives that can help students develop the proposal in the fall semester.

ISBA 3710



ISBA electives *and*
At least 12 units of
CMSI courses



ISBA 4797
-Capstone Project

AIMS Major Requirements for AY20-21 Juniors & Seniors

- Students must complete **at least 15 units** of **AIMS** courses (this does **NOT** include old core AIMS 2710 and 3770, CMSI courses or ISBA courses). AIMS courses are now 4 units (except AIMS 4796).
- Students must complete **at least 120 units** to graduate.
- Students must submit a capstone proposal that is approved by the capstone instructor in November in order to register for the AIMS 4797 Capstone project which is only taught during spring semester.
- AIMS 3720 (System Analysis & Design- 4 units) and AIMS 4796 (Capstone Prep – 1 unit) are electives that can help students develop the proposal in the fall semester.

AIMS 3710 (3 or 4 units)
and
Programming Requirement:
AIMS 3730 or CMSI 185/1010 (3 or 4 units)



AIMS electives



AIMS 4797 (4 units)

New CMSI Curriculum Starts Fall 2021

- Past curriculum was 3 unit courses:
 - CMSI 185, 186, 281 plus other electives
- New curriculum is mostly 2 and 4 unit courses:
 - CMSI 1010 (Computer Programming) – 4 units
 - CMSI 2120 (Data Structures and Applications) – 4 units
 - CMSI 2021 (Web Development) and CMSI 2022 (App Dev) – 2 units
- Cross-listed 3-unit classes still exist with their graduate program:
 - CMSI 560 - CyberSecurity

Sophomore Year

- ECON 2300 in Fall
- BCOR 2710 in Fall or Spring
 - Overview of ISBA major
 - Prerequisite for ISBA courses
- CMSI 1010 /CMSI 2010 if B.S. major
- Summer jobs
 - IT Help Desks, Research Assistants, Computer Labs
 - Protiviti and other firms' leadership programs
- Start planning courses for Study Abroad Junior year if interested

Junior Year

- ISBA 3710 - Prerequisite for most ISBA electives
- ISBA 3730 in Fall if you did not take CMSI
 - Prerequisite for many ISBA electives
- BCOR 3750 – Prerequisite for analytical electives
- Summer internships
 - Accounting firms
 - LionJobs
- Information Technology Competitions /Hackathons
- Study Abroad if interested (recommend in Spring)

Senior Year

- Finish ISBA and CMSI electives
- Identify and write Capstone Project Proposal in Fall
 - ISBA 3720 (4 units) or 4796 (1 unit) in Fall strongly recommended
- AIMS 4797 Capstone Project in Spring
- Internships
- Job search

Current ISBA Courses and Planned Offerings

Course #	ISBA Course Name	Type	Offered	Other Information
3710	Database Management Systems	Required	Every Semester	
3720	Systems Analysis & Design	Elective	Every Fall	Assists students with Capstone Proposal
3730	Programming for Business Applications	Required if no CMSI course	Every Fall	Fills ISBA programming requirement
3740	Business Process Mgmt through ERP	Elective	Every Other Fall	Starting Fall 2023
4715	Developing Business Applications Using SQL	Elective	Every Spring	
4740	Financial Modeling & Analytics	Elective	Every Other Spring	
4750	Business Web & App Development	Elective	Every Other Spring	CMSI offering 2 unit courses
4755	Introduction to Big Data	Elective	Every Other Fall	
4760	Data Visualization & GIS	Elective	Every Other Fall	
4770	Cybersecurity	Elective	Every Other Spring	
4780	Analytics for Business Strategy	Elective	Every Other Spring	
4790	Machine Learning	Elective	Every Other Spring	
4796	Capstone Proposal Development - 1 unit	Elective	Every Fall	Assists students with Capstone Proposal
4797	Capstone Project	Required	Every Spring	
SPECIAL STUDIES (4798 COURSES)				
	Network & Cloud Computing	Elective	Fall 2021	
	Ecommerce	Elective	Fall 2022	
	IT Strategy	Elective	Spring 2022	
	Blockchain	Elective	Fall 2022 (tentative)	
	Text-Mining	Elective	Spring 2023	
	FinTech	Elective		

Current ISBA Courses and Planned Offerings

	ISBA CURRICULUM & CAREER PATHS			
	IS Analyst/ Management Consultant	IT System Administrator /CyberSecurity	Business/Data Analyst	Application Developer/ Ecommerce
Courses				
3710 – Database	X	X	X	X
3720 – System Anal & Design	X	X		X
3730 or CMSI Programming Requirement	X	X	X	X
3740 - Bus Process Mgmt ERP	X			X
4715 – Bus Apps Using SQL		X	X	X
4740 – Fin Modeling Analytics	X		X	X
4750 – Web & App Dev		X		X
4755 – Intro to Big Data	X	X	X	X
4760 – Data Vis & GIS			X	X
4770 – CyberSecurity	X	X		X
4780 - Anal for Bus Strategy	X		X	
4790 – Machine Learning			X	
4798 Electives:				
Networking & Cloud Computing	X	X	X	X
Ecommerce		X		X
IT Strategy	X			
Blockchain	X	X		
Text-Mining			X	
Computer Science Courses (B.S. degree)		X	X (or Math minor)	X

MS in Business Analytics Program

- Since Fall 2019, LMU offers a MS-Business Analytics program
- Ranked #33 by U.S. News & World Report for 2 years
- Highlights: 30 units (after waiving business core classes)
 - Summer Group Capstone Project with client identified by LMU
 - Analytics core courses
 - Student teams participate successfully in external competitions
 - Electives in:
 - Text-mining & social media analytics
 - Data Visualization
 - Advanced Machine Learning
 - Healthcare Analytics
 - Marketing Analytics