

# IVY COLLEGE OF BUSINESS

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<https://www.ivybusiness.iastate.edu/>

## Curriculum in Business

The Ivy College of Business strives to provide a high-quality professional education in business. Such an education should provide the student with: (1) an appreciation of the evolution of the profession and an awareness of the ethical, global, technological, economic, political and social forces shaping its future; (2) an understanding of the major functional areas of business with the opportunity for specialization for a career in business; (3) an ability to recognize and appreciate the effect of diversity in the work place; (4) an opportunity for advanced study.

A comprehensive education in business includes a broad foundation in the liberal arts, courses in the major functional areas of business activity, proficiency in analytical methods, and the ability to identify problems and arrive at logical solutions. In addition, a professional education is designed to inspire students to assume business and community leadership.

The curriculum in business is accredited by AACSB International, the Association to Advance Collegiate Schools of Business.

## Organization of Curriculum

The undergraduate curriculum in business is divided into three areas: general education, foundational courses, and a core major. The general education program provides a broad spectrum of liberal arts coursework. The foundational business requirements provide a framework for business coursework. The last area includes two parts: (1) the business core which provides a common body of knowledge in all the functional areas in business, and (2) a major area of study. The twelve majors offered for the degree Bachelor of Science (B.S.) are accounting, actuarial science, business analytics, business economics, entrepreneurship, finance, healthcare management, human resource management, management, management information systems, marketing, and supply chain management. The college also offers a secondary major in international business. Elective courses are part of the curriculum. Additionally, the college offers the Bachelor of Business Administration (BBA) online degree completer program.

## Curriculum Changes

Iowa State University students who want to change their curriculum to the Ivy College of Business should contact the Undergraduate Programs Office for assistance. For more details on changing curriculum or majors, please visit: <https://catalog.iastate.edu/academics/#degreeplanningtext>.

Students on Academic Probation will not be allowed to change curriculum to the Ivy College of Business during enrollment period three. See Making Schedule Changes at: <http://catalog.iastate.edu/registration/#schedulechangestext>. (<http://catalog.iastate.edu/registration/#schedulechangestext>)

## Academic Standards and Graduation Requirements

Policies for students enrolled in the Ivy College of Business may be obtained at <https://www.ivybusiness.iastate.edu/life-at-ivy/academic-services/undergraduate-student-services/academic-advising/> or from the Undergraduate Programs Office in the Ivy College of Business.

Students are responsible for knowing and adhering to these Ivy College of Business policies as well as the university regulations found in this catalog. The following policies are in effect for students graduating from a professional curriculum in business with a B.S. degree under the 2023 catalog:

1. A minimum of 122 semester credits are required for Bachelor's Science degrees.
2. At least 50 percent of the required business credits must be earned at Iowa State. All 3000 level and higher business credits must be earned at a four-year institution.
3. Cumulative ISU grade point average of at least 2.0 with no quality point deficiencies.
4. The major departments reserve the right to determine the appropriate section of the degree program to which transfer credits will be assigned.
5. No more than two transfer classes can be applied to the major.
6. Students must achieve communication proficiency by earning a grade of C or better in ENGL 2500, and one additional C or better from either ENGL 1500 or ENGL 3020.
7. A student must earn a grade of C or higher in a minimum of 30 credits applied to the business core and the major.
8. A student must earn at least 42 credits of 3000 level and higher coursework from a four-year institution.
9. Business majors may not take business courses Pass-Not Pass (P/NP).
10. General education and supporting courses may not be taken P/NP.
11. No more than 9 elective credits may be taken P/NP.
12. The last 32 credits applied for graduation must be taken at ISU. A waiver for Study Abroad and Internship/Co-ops may be granted.

## Advising System

Each student in the Ivy College of Business has an assigned academic advisor who helps facilitate student progress toward graduation while supporting the academic standards of the College.

Advisors, as part of the Undergraduate Programs Office staff, provide academic services to Business students including development of academic plans, study abroad planning, accessing pertinent University services and resources, and meeting their overall educational objectives.

The College encourages students to attend an orientation program prior to their entry, where information is shared and evaluated to help set the student out on the academic path appropriate to their goals, preparation, interests, and capabilities.

## Honors

Entering freshmen who meet the criteria will be invited to apply for membership in the Freshman Honors Program by the University Honors Program. For more information on the University Honors Program, please visit: <https://www.ivybusiness.iastate.edu/life-at-ivy/get-involved/honors-program/>. (<https://www.ivybusiness.iastate.edu/life-at-ivy/get-involved/honors-program/>)

Currently enrolled students who have completed 12 graded credits at Iowa State University, earned a cumulative GPA of 3.50 or above, and have more than 48 credit hours remaining until graduation, are eligible to apply for membership to the University Honors Program (UHP). UHP students in the Ivy College of Business will work with designated advisors to incorporate elements of breadth, depth, and leadership into their business education through completion of academic, co-curricular, and personal/professional development experiences. In addition, to graduate with Honors in the Ivy College of Business, students must complete a minimum of two honors-designated courses, two 3000-level honors seminars, an honors project, 50 credits of 3000-level or higher coursework, and maintain a cumulative GPA of 3.50 or above. Additional details of requirements can be found on the Ivy College of Business Honors website at: <https://www.ivybusiness.iastate.edu/life-at-ivy/get-involved/honors-program/>. (<https://www.ivybusiness.iastate.edu/life-at-ivy/get-involved/honors-program/>)

## Internships

Credit and non-credit internships in business may be approved for Ivy College of Business students in all majors. Credit hours and requirements vary, although internship credits only count as general electives.

Arrangements must be made in the college prior to the beginning of the internship. A career coordinator from the Business Career Services Office will assist students in making these arrangements.

## Multiple Majors

Undergraduates pursuing a degree in the Ivy College of Business may complete additional majors in the Ivy College of Business. \* Those desiring additional majors outside the college should refer to the catalog section of the appropriate college and department for the additional major requirements. A multiple major in business economics and agricultural business or economics is not permitted. A major in business economics with a minor in economics is not permitted.

Undergraduates with a primary major outside the Ivy College of Business who want a second major in business must complete the following requirements: Foundation, Supporting Courses, Business Core, and major requirements. (Refer to the current Curriculum Guide).

All students pursuing multiple majors or multiple degrees within the Ivy College of Business are required to have a minimum of 15 credits of coursework in each major that is not used in the other majors.

Students are limited to three business majors/degrees/minors within the Ivy College of Business. This limit is on business majors/degrees/minors only and does not apply to multiple majors/degrees/minors taken outside the Ivy College of Business.

*\* BBA students cannot double major or earn a double degree in a business area. However, they may work towards a double degree in another college at Iowa State. Online minors outside of the Ivy College of Business could be added to the BBA if desired. Consult with an advisor in the Undergraduate Student Services Office for assistance in identifying online minor options.*

## Second Majors, Minors and certificates International Business Secondary Major

A student in the Ivy College of Business may earn a secondary major in International Business. The requirements for this major include 6 credits of international overview courses, 6 credits of business focus courses, and the completion of one of the three options for global engagement, awareness, and regional perspective. Students who pursue this secondary major will be required to complete the requirements for a primary major in Business. Fifteen of the 18 credits required for the International Business major may not be used for the primary major.

### Minor in International Business

Students with a major in the Ivy College of Business may earn a minor in International Business by completing 15 credits of approved coursework. The minor requires one course from the approved International Overview courses, two courses from the approved Business Focus courses, and by completing the Faculty-Led Global Awareness track, or the Foreign Language Global Awareness track, or through a plan of study approved by the Ivy International Programs Office. The minor must include at least six credits in courses numbered 3000 or above taken at Iowa State University with a grade of C or higher. The minor must include at least 9 credits

that are not used to meet any other department, college, or university requirement. Students with declared majors have priority over students with declared minors in courses with space constraints.

## Minor in Business and Technology Consulting

The Department of Marketing offers a specialty minor open to any undergraduate student at Iowa State University. The Business and Technology Consulting minor prepares you for a career as a business consultant. Every year consulting companies attract talented graduates across the world. As a consultant, you gain broad exposure to business issues, solve different business problems, make an impact on major businesses, and become an expert in a specific business functional area. The minor provides a systematic process for students to strengthen problem-solving skills and prepare them to become better communicators and future leaders.

The minor requires 15 credits from an approved list of courses, including at least 6 credits in courses numbered 3000 or above taken at Iowa State University with a grade of C or higher. The minor must include at least 9 credits that are not used to meet any other department, college, or university requirement. Students with declared majors have priority over students with declared minors in courses with space constraints.

Non-business students may not take more than 9 credits of 3000- or 4000-level business courses.

## Minors for Business Students

Students with a major in the Ivy College of Business (excluding BBA students<sup>^</sup>) may qualify for a minor specialization in one of the college's departments. Minor specializations are available in: Accounting, Business Analytics, Entrepreneurship (see Entrepreneurship Cross-Disciplinary Minor below), Finance, International Business (see Minor in International Business above), Management, Management Information Systems, Marketing, and Supply Chain Management. These minors require at least 15 credit hours in the minor specialization (16 credit hours are required for a minor in accounting), nine hours of which may not be used to satisfy any other department, college, or university requirement. The minor must include at least 6 credits in courses numbered 3000 or above taken at Iowa State University with a grade of C or higher. Students with declared majors have priority over students with declared minors in courses with space constraints.

Students are limited to three business majors/degrees/minors within the Ivy College of Business. This limit is on business majors/degrees/minors only and does not apply to multiple majors/degrees/minors taken outside the Ivy College of Business.

<sup>^</sup> BBA students can add online minors offered outside the Ivy College of Business. Consult with an advisor in the Undergraduate Student Services Office for assistance in identifying online minor options.

## Minor in General Business for Non-Business Students

The Ivy College of Business offers a structured minor in general business to students outside the College. The minor requires a minimum of 15 credits, not including pre-requisite courses. Requirements for the minor are:

Required Courses (6 credits):

ACCT 2840	Financial Accounting	3
ACCT 2850	Managerial Accounting	3
or ACCT 2150	Legal Environment of Business	

Elective Courses (9 credits):

Select three courses from the following list:

ENTSP 3100	Entrepreneurship and Innovation	3
FIN 3010	Principles of Finance	3
MIS 3010	Management Information Systems	3
MKT 3400	Principles of Marketing	3
MGMT 3700	Managing Organizations	3
SCM 3010	Supply Chain Management	3

The minor must include at least 6 credits in courses numbered 3000 or above taken at Iowa State University. A "C" average or better is required in courses used to satisfy the minor requirements. All requirements for the minor must be taken for a grade. Students with a major outside the Ivy College of Business are eligible for a general business minor or a minor in business and technology consulting only. They may not receive any other specific minor from a business department.

Non-Business students may not take more than 9 cr. of 3000 or 4000 level Business courses.

General Business minor students needing more courses to meet the "nine credit stand alone" rule will need to apply to the Ivy College of Business for an exception or should consider taking one additional course of ACCT 2850 or ACCT 2150.

For more information on the General Business minor, please visit: <https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/minors-and-certificates/>. (<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/minors-and-certificates/>)

## Undergraduate Certificates

### Professional Sales Certificate

The certificate in professional sales is a course of study administered by the Department of Marketing in the Ivy College of Business. It is designed for all undergraduate majors who wish to enhance their degree and employment possibilities by adding expertise in professional selling. The certificate program will equip students with knowledge and skills related to developing and managing mutually beneficial relationships with customers. The certificate program is built on a strong theoretical

background but emphasizes applications and practice. The certificate provides students with an opportunity to learn about the ethical, technological, analytical, and global aspects of professional sales.

Students need to fulfill the course prerequisites set by the Ivy College of Business. The certificate requires 21 credits from a designated list of courses, of which, a minimum of 9 credits may not be used to meet any other department, college, or university requirement for the baccalaureate degree except to satisfy the total credit requirement for graduation and to meet credit requirements in courses numbered 3000 or above.

Business courses listed as electives are available only to business majors. Non-business majors are limited to the 12 credits of required business courses for the certificate.

For more information about the Professional Sales Certificate, please visit: <https://catalog.iastate.edu/collegeofbusiness/marketing/#undergraduatecertificatetext>. (<https://catalog.iastate.edu/collegeofbusiness/marketing/#undergraduatecertificatetext>)

### Actuarial Science Certificate

The certificate in actuarial science is available from the *College of Liberal Arts and Sciences* for non-actuarial science majors at Iowa State. The certificate requires 23 credits from a designated list of courses, of which 9 credits must stand-alone. There are 9 prerequisite courses required for the certificate's required courses.

For more information about the Actuarial Science Certificate, please visit: <https://catalog.iastate.edu/collegeofbusiness/actuariescience/#certificatetext>. (<https://catalog.iastate.edu/collegeofbusiness/actuariescience/#certificatetext>)

## Entrepreneurship Cross-Disciplinary Minor

The Ivy College of Business participates in a university-wide minor in Entrepreneurship. This minor is available to any undergraduate student. Requirements for the minor include, ENTSP 3100 Entrepreneurship and Innovation (3 credits), either ENTSP 3130 Feasibility Analysis for New Ventures or ENTSP 3200 Corporate Entrepreneurship or ENTSP 4100 Social Entrepreneurship (3 credits), two business-oriented electives from an approved list (6 credits), and an experiential learning component (3 credits). The approved list of courses is available at: <https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/minors-and-certificates/entrepreneurship-minor/>. (<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/minors-and-certificates/entrepreneurship-minor/>) The minor requires at least 15 credits, including at least 6 credits in courses numbered 3000 or above taken at Iowa State University with a grade of C or higher. The

minor must include at least 9 credits that are not used to meet any other department, college, or university requirement.

## Non-degree Seeking Students

Students who wish to take courses in the Ivy College of Business, but are not seeking an undergraduate degree, should apply to the college as non-degree seeking students. Non-degree seeking students are eligible to take up to 9 credits in 3000-level and above business courses without meeting the college's admission requirements.

## Upper Division Courses for Students Outside the College

Students from outside the Ivy College of Business are eligible to take up to 9 credits of 3000-level and above business courses, as long as they meet course prerequisites.

## Departments of the College

- Accounting (<https://www.ivybusiness.iastate.edu/about-ivy/academic-departments/accounting/>)
- Finance (<https://www.ivybusiness.iastate.edu/about-ivy/academic-departments/finance/>)
- Information Systems and Business Analytics (<https://www.ivybusiness.iastate.edu/about-ivy/academic-departments/information-systems-and-business-analytics/>)
- Management and Entrepreneurship (<https://www.ivybusiness.iastate.edu/about-ivy/academic-departments/management-and-entrepreneurship/>)
- Marketing (<https://www.ivybusiness.iastate.edu/about-ivy/academic-departments/marketing/>)
- Supply Chain Management (<https://www.ivybusiness.iastate.edu/about-ivy/academic-departments/supply-chain-management/>)

## Curriculum in Business

The college offers programs of study leading to the degree Bachelor of Science with a major in accounting, actuarial science, business analytics, business economics, entrepreneurship, finance, healthcare management, human resource management, management, management information systems, marketing, or supply chain management.

The college also offers a secondary major in international business. Total credits required: 122.

The college also offers a degree completer program leading to a Bachelor of Business Administration (BBA). Total credits required: 120.

See also: A 4-year (8 semester) plan of study for each business degree. (<http://catalog.iastate.edu/planofstudy/#collegeofbusinessstext>)

## Business Curriculum

For Actuarial Science curriculum, please go to: <https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/actuarial-science/>. (<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/actuarial-science/>)

For BBA curriculum, please go to: <https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/bachelor-of-business-administration/>. (<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/bachelor-of-business-administration/>)

For all Business majors, students may apply 9 P-NP credits of free electives; must earn an overall 2.00 minimum GPA; and apply only 65 credits from a 2-year institution, which may include up to 16 technical credits.

**International Perspective: 3 cr. (see footnote 3 below)**

**U.S. Diversity: 3 cr. (see footnote 4 below)**

**Communication: 13 cr.**

Proficiency met with grade of C or better in ENGL 2500, and one additional C or better from either ENGL 1500 or ENGL 3020.

ENGL 1500	Critical Thinking and Communication	3
ENGL 2500	Written, Oral, Visual, and Electronic Composition	3
ENGL 3020	Business Communication	3
SPCM 3120	Business and Professional Speaking	3
LIB 1600	Introduction to College Level Research	1

**Humanities/Social Science: 9 cr.**

9 cr. from approved humanities/social science list.

**Global Perspectives: 6 cr. (SEE Footnote 3 BELOW)**

6 cr. from approved global perspectives list.

**Natural Science: 3 cr.**

3 cr. from approved natural sciences list.

An approved list of the general education courses above are available at: <https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/general-education-requirements/> or from the Undergraduate Student Services Office in the Ivy College of Business.

**Foundation: 20 cr.**

BUSAD 1020	Business Learning Team Orientation or BUSAD 1030 Orientation	1
BUSAD 2030	Professional Development in Business	1
MATH 1500	Discrete Mathematics for Business and Social Sciences <sup>1,2</sup>	3
COMS 1130	Introduction to Spreadsheets and Databases	3
ECON 1010	Principles of Microeconomics	3

ECON 1020	Principles of Macroeconomics	3
STAT 2260	Introduction to Business Statistics I	3
ACCT 2840	Financial Accounting	3
<b>Total Credits</b>		<b>20</b>

**Supporting Courses: 9-13 cr.**

*NOTE: Additional supporting courses are required for Actuarial Science.*

See <https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/actuarial-science/> for specific requirements for Actuarial Science.

MATH 1510	Calculus for Business and Social Sciences <sup>1</sup>	3
ACCT 2150	Legal Environment of Business	3
ACCT 3010	The Accounting Cycle (For ACCT majors only) <sup>1</sup>	1
MIS 2070	Fundamentals of Programming for Business and Analytics <sup>1</sup>	3
STAT 3260	Introduction to Business Statistics II (For ACCT, BUSAN, BUSEC, and FIN majors only) <sup>1</sup>	3
PHIL 2300	Moral Theory and Practice	3

**Business Core: 27 cr.**

ACCT 2850	Managerial Accounting	3
ENTSP 3100	Entrepreneurship and Innovation	3
FIN 3010	Principles of Finance	3
MIS 3010	Management Information Systems	3
MGMT 3710	Organizational Behavior	3
MGMT 3720	Ethical and Responsible Management	3
MKT 3400	Principles of Marketing	3
SCM 3010	Supply Chain Management	3
MGMT 4780	Strategic Management*	3

**Total Credits** 27

\*Must have credit or enrollment in all core courses listed above, except for MGMT 3720, plus senior standing, in order to enroll in MGMT 4780.

**BUSINESS MAJOR: 18-29 cr.** (depending on major)

**ELECTIVES: 0-17 cr.** (depending on major)

**FootNotes:**

<sup>1</sup> Accounting, Business Analytics, Business Economics, and Finance majors will also take STAT 3260 Introduction to Business Statistics II as part of the supporting courses. Business Economics majors will take MATH 1600 Survey of Calculus and ECON 2070 Applied Economic Optimization instead of MATH 1500 Discrete Mathematics for Business and Social Sciences and MATH 1510 Calculus for Business and Social Sciences. Accounting majors will take ACCT 3010 The Accounting Cycle concurrently with ACCT 2850 Managerial Accounting as part of the Supporting Courses. Management Information Systems majors

will take MIS 2070 Fundamentals of Programming for Business and Analytics as part of the Supporting Courses.

<sup>2</sup> Students not adequately prepared in mathematics may have to take a supplemental course in addition to courses listed above.

<sup>3</sup> Students may satisfy the Global/International Perspectives requirement by taking six credit hours from the University International Perspectives list.

<sup>4</sup> Courses used for the U.S. Diversity requirements may also be used to fulfill Humanities/Social Sciences.

## Professional Programs

The Ivy College of Business and the curriculum in accounting are accredited by AACSB International, the Association to Advance Collegiate Schools of Business.

### Accounting major: 21 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/accounting/>

### Actuarial Science major: 23 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/actuarial-science/>

### Business Analytics major: 21 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/business-analytics/>

### Business Economics major: 19 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/business-economics/>

### Entrepreneurship major: 18 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/entrepreneurship/>

### Finance major: 21 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/finance/>

### Healthcare management major: 24 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/healthcare-management/>

### Human Resource Management Major: 21 Cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/human-resource-management/>

### Management major: 18 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/management/>

### Management Information Systems major: 18 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/management-information-systems/>

### Marketing major: 18 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/marketing/>

### Supply Chain Management major: 18 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/supply-chain-management/>

### International Business *Secondary* major: 18 cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/international-business/>

### BACHELOR OF BUSINESS ADMINISTRATION degree: 21 Cr.

<https://www.ivybusiness.iastate.edu/academics/undergraduate-programs/bachelor-of-business-administration/>

## Bachelor of Science

The Bachelor of Science (B.S.) degree offers a high-quality professional education in business. It prepares students for professional careers in specialized functions of business and government. Candidates for this degree must satisfy the requirements established by the Ivy College of Business and also the requirements for individual majors specified by the departments of the College. All candidates for the B.S. degree are required to complete one of the following majors: accounting, actuarial science, business analytics, business economics, entrepreneurship, finance, healthcare management, human resource management, management, management information systems, marketing, or supply chain management.

## Majors

Accounting (<http://catalog.iastate.edu/collegeofbusiness/accounting/#undergraduatetext>)

Actuarial Science (<http://catalog.iastate.edu/collegeofbusiness/actuarialscience/#undergraduatemajortext>)

Business Analytics (<http://catalog.iastate.edu/collegeofbusiness/businessanalytics/#undergraduatemajortext>)

Business Economics (<http://catalog.iastate.edu/collegeofbusiness/businesseconomics/#departmentstext>)

Entrepreneurship (<http://catalog.iastate.edu/collegeofbusiness/entrepreneurship/#undergraduatemajortext>)

Finance (<http://catalog.iastate.edu/collegeofbusiness/finance/#undergraduatetext>)

Healthcare Management (<http://catalog.iastate.edu/collegeofbusiness/healthcaremanagement/>)

Human Resource Management (<http://catalog.iastate.edu/collegeofbusiness/humanresourcemanagement/#text>)

International Business (<http://catalog.iastate.edu/collegeofbusiness/internationalbusiness/#secondaryundergraduatemajortext>) (second major only)

Management (<http://catalog.iastate.edu/collegeofbusiness/management/#undergraduatetext>)

Management Information Systems (<http://catalog.iastate.edu/collegeofbusiness/managementinformationsystems/#undergraduatetext>)

Marketing (<http://catalog.iastate.edu/collegeofbusiness/marketing/#marketingtext>)

Supply Chain Management (<http://catalog.iastate.edu/collegeofbusiness/supplychainmanagement/#undergraduatetext>)

Bachelors of Business Administration (<http://catalog.iastate.edu/collegeofbusiness/businessadministration/#overviewtext>) (online degree completer program)

## Minors

### For Business Majors Only

Accounting (<http://catalog.iastate.edu/collegeofbusiness/accounting/#undergraduateminortext>)

Business Analytics (<http://catalog.iastate.edu/collegeofbusiness/businessanalytics/#undergraduateminortext>)

Business and Technology Consulting (<http://catalog.iastate.edu/collegeofbusiness/marketing/#undergraduateminortext>)

Entrepreneurship (<http://catalog.iastate.edu/interdisciplinaryprograms/entrepreneurship/>)

Finance (<http://catalog.iastate.edu/collegeofbusiness/finance/#minortext>)

International Business (<http://catalog.iastate.edu/collegeofbusiness/internationalbusiness/#undergraduateminortext>)

Management (<http://catalog.iastate.edu/collegeofbusiness/management/#undergraduateminortext>)

Management Information Systems (<http://catalog.iastate.edu/collegeofbusiness/managementinformationsystems/#undergraduateminortext>)

Marketing (<http://catalog.iastate.edu/collegeofbusiness/marketing/#undergraduateminortext>)

Supply Chain Management (<http://catalog.iastate.edu/collegeofbusiness/supplychainmanagement/#undergraduateminortext>)

### For Non-Business Majors

Business and Technology Consulting (<http://catalog.iastate.edu/collegeofbusiness/marketing/#undergraduateminortext>)

General Business Minor

Entrepreneurship (<http://catalog.iastate.edu/interdisciplinaryprograms/entrepreneurship/>)

## Certificates

### For any ISU major

Professional Sales Certificate (<http://catalog.iastate.edu/collegeofbusiness/marketing/#undergraduatecertificatetext>)

## GRADUATE STUDY

### Master's Programs

Nine programs are offered at the master's level: a Master of Business Administration (MBA), a professional Master of Business Administration (PMBA), a Master of Accounting (MAcc), a Master of Business analytics (MBAN), a master of entrepreneurship (MEP), a Master of Finance (MFIN), a master's in healthcare analytics and operations (MHAO), a Master of Real Estate Development (MRED), and a Master of Science in information systems (MSIS). These programs are intended to meet distinct sets of educational objectives.

### Master of Business Administration (MBA)

The Master of Business Administration (MBA) is the professional management education program for those pursuing careers in business. The goal of the MBA program is to educate future business leaders preparing them for the challenges of tomorrow by giving them the vision, knowledge, skills, and confidence to make the best decisions for all involved stakeholders. The MBA program consists of a 48-credit curriculum leading to a non-thesis, non-creative component Master of Business Administration. Students may pursue a specialization in accounting, accounting analytics, business analytics, entrepreneurship, finance, healthcare analytics and operations, information systems, leadership, marketing, real estate, or supply chain management.

The Ivy College of Business also offers a business administration minor to students with majors outside the college. For more information on the graduate minor in business administration, please visit: <https://www.ivybusiness.iastate.edu/academics/graduate-programs/graduate-minor/>. (<https://www.ivybusiness.iastate.edu/academics/graduate-programs/graduate-minor/>)

A concurrent BS/MBA is available to eligible engineering undergraduate students majoring in aerospace, agricultural, biological systems, chemical, civil, computer, construction, cybersecurity, electrical, industrial, materials science, mechanical, or software engineering. A concurrent BS/MBA is available to eligible undergraduate students majoring in agricultural systems technology, agronomy, animal science, chemistry, computer science, food science, geology, industrial design, industrial technology, and meteorology.

Double master's degree programs are offered with accounting (MBA/MAcc), architecture (MBA/MArch), business analytics (MBA/MBAN), community and regional planning (MBA/MCRP), entrepreneurship (MBA/MEP), finance (MBA/MFIN), healthcare analytics and operations (MBA/MHAO), information systems (MBA/MSIS), and real estate development (MBA/MRED). A double degree program (DVM/MBA) is also available to eligible Veterinary Medicine students.

### **Professional Master of Business Administration (PMBA)**

The professional Master of Business Administration (PMBA) is the professional management education program for those pursuing careers in business. The goal of the PMBA program is to educate future business leaders preparing them for the challenges of tomorrow by giving them the vision, knowledge, skills, and confidence to make the best decisions for all involved stakeholders. The PMBA program consists of a 42-credit curriculum leading to a non-thesis, non-creative component professional Master of Business Administration. Students may pursue a specialization in accounting, accounting analytics, business analytics, entrepreneurship, finance, healthcare analytics and operations, information systems, leadership, marketing, real estate, or supply chain management.

Double master's degree programs are offered with accounting (PMBA/MAcc), business analytics (PMBA/MBAN), entrepreneurship (PMBA/MEP), healthcare analytics and operations (PMBA/MHAO), and real estate development (PMBA/MRED).

Multiple concurrent degree programs are offered between the Ivy College of Business and other Colleges at ISU. The concurrent degree programs allow qualified students to be admitted to a master's program while completing their undergraduate degree. Students can double count up to 6 credits of coursework between the degrees, allowing them to complete both a Bachelor of Science and a master's degree in as little as five years. The concurrent degree programs offered include:

- B.S. Business Analytics (BUSAN) and Master of Business Analytics (MBAN)
- B.S. Business Analytics (BUSAN) and Master of Science in Information Systems (MSIS)
- B.S. Finance (FIN) and Master of Finance (MFIN)
- B.S. Management Information Systems (MIS) and Master of Science in Information Systems (MSIS)
- B.S. Management Information Systems (MIS) and Master of Business Analytics (MBAN)
- B.S. Software Engineering (SE) and Master of Science in Information Systems (MSIS)

For more information on the concurrent Bachelors and master's programs offered through the Ivy College, please visit: <https://www.ivybusiness.iastate.edu/academics/graduate-programs/>. (<https://www.ivybusiness.iastate.edu/academics/graduate-programs/>)

### **Master of Accounting (MAcc)**

The Master of Accounting (MAcc) is designed to meet the needs of accountants in public or private accounting, focusing on interpreting and analyzing accounting information for decision-making and preparing students for certification as a Certified Public Accountant (CPA) or Certified Management Accountant (CMA). The 30-hour program requires 15 hours of graduate accounting courses, including courses in data

analytics and communications. Students may pursue a specialization in Financial Reporting and Assurance, Information Systems and Analytics, Tax, or Managerial Decision Making.

### **Master of Business Analytics (MBAN)**

The Master of Business analytics (MBAN) is an interdisciplinary program that addresses the challenges of dealing with data analytics and business intelligence in the "Big Data" environment. The goal is to develop managers who will master analytics in ways that lead to increased profits for their company. The program, offered both online or in-person, offers a comprehensive approach that draws from Business, Computer Science, Electrical and Computer Engineering, Statistics, and Industrial and Manufacturing Systems Engineering. It provides a foundation in data analytics project management, statistical and predictive modeling, consumer sentiment analysis, knowledge discovery, analytical reporting, segmentation analysis and data visualization. The program requires 30 credits of graduate level courses over a 21-month period.

A certificate in business analytics is also available for working professionals. The certificate requires a minimum of 12 graduate level approved credits, which may be taken either on-line or face-to-face. For more information on the graduate certificate in business analytics, please visit: <http://catalog.iastate.edu/collegeofbusiness/businessanalytics/#graduatecertificatetext>. (<http://catalog.iastate.edu/collegeofbusiness/businessanalytics/#graduatecertificatetext>)

### **Master of Finance (MFIN)**

The Master of Finance (MFIN) is designed to provide students with in-depth coverage of financial topics and a strong quantitative skill set. Students will learn financial analysis, valuation, modeling, and risk management techniques. The 30-credit program requires 24 finance credits, of which 6 are finance electives. The remaining 6 credits are electives selected from any related area.

A certificate in finance is also available. The certificate requires a minimum of 12 graduate level approved credits, which may only be taken face-to-face. For more information on the graduate certificate in finance, please visit: <http://catalog.iastate.edu/collegeofbusiness/finance/#graduatecertificatetext>. (<http://catalog.iastate.edu/collegeofbusiness/finance/#graduatecertificatetext>)

### **Masters in Healthcare Analytics and Operations (MHAO)**

Students graduating from the Master's in Healthcare Analytics and Operations (MHAO) program will apply data and appropriate models to analyze operations and supply chains to develop and present actionable insights leading to better outcomes in the healthcare industry. Healthcare analytics uses historical and current data to predict trends and optimize operations, bringing benefits to patients, medical professionals, and healthcare supply chain partners.

### **Master of Real Estate Development (MRED)**

The Master of Real Estate Development (MRED) is a 30-credit non-thesis, non-creative component program. The MRED program offers academic training, networking opportunities and collaboration with leading academics and practitioners to solve real world problems. Areas of study include real estate market analysis, finance, investments, leadership and negotiation, fundamentals of the build environment, construction science and urban planning. The curriculum is offered in a convenient format of distance learning and brief campus residencies, making it ideal for the full-time working professional.

### **Master of Science in Information Systems (MSIS)**

The Master of Science in information systems (MSIS) is designed to provide students with strong technical skills and a broad background in business needed to effectively develop and manage information systems projects. Using the latest software, students will apply information systems theory and concepts to modern information systems development. The 30-credit program includes business foundation courses, information systems core courses and electives, and a research requirement (creative component).

A certificate in supply chain management is also available. The certificate requires a minimum of 12 graduate level approved credits, which may only be taken on-line. For more information on the graduate certificate in supply chain management, please visit: <http://catalog.iastate.edu/collegeofbusiness/supplychainmanagement/#graduatecertificatetext>. (<http://catalog.iastate.edu/collegeofbusiness/supplychainmanagement/#graduatecertificatetext>)

A certificate in enterprise cybersecurity management is also available. The certificate requires a minimum of 12 graduate level approved credits, which may be taken either on-line or face-to-face. For more information on the graduate certificate in enterprise cybersecurity management, please visit: <http://catalog.iastate.edu/collegeofbusiness/managementinformationssystem/#graduatecertificatetext>. (<http://catalog.iastate.edu/collegeofbusiness/managementinformationssystem/#graduatecertificatetext>)

### **Master of Entrepreneurship (MEP)**

The Master of Entrepreneurship (MEP) is designed to provide students with the knowledge, skills, and practical experience to prepare student to start and manage new business ventures independently – or within an established organization. Students will develop and practice the primary entrepreneurial skills needed to identify and evaluate market opportunities and think creatively to formulate and implement successful strategies for moving a business idea forward. The 30-credit program requires both core and elective credit in addition to experiential components.

A certificate in entrepreneurship and innovation is also available. The certificate requires a minimum of 12 graduate level approved credits,

which may be taken either on-line or face-to-face. For more information on the graduate certificate in entrepreneurship and innovation, please visit: <http://catalog.iastate.edu/collegeofbusiness/entrepreneurship/#graduatecertificatetext>. (<http://catalog.iastate.edu/collegeofbusiness/entrepreneurship/#graduatecertificatetext>)

A certificate in Digital Marketplace Analytics is offered by the Ivy College of Business and the College of Human Sciences. The 15-credit certificate, which incorporates coursework from both colleges, provides an innovative program for individuals who want to build their data analytics skills and to apply analytics tools to problem-solving in the fashion, events, and hospitality industries. For more information on the graduate certificate in digital marketplace analytics, please visit: <http://catalog.iastate.edu/collegeofbusiness/businessanalytics/#graduatecertificatetext>. (<http://catalog.iastate.edu/collegeofbusiness/businessanalytics/#graduatecertificatetext>)

The Ivy College of Business participates in the following graduate level interdepartmental programs: Cyber Security, Engineering Management, Human Computer Interaction, Seed Technology and Business, and Transportation.

### **Ph.D. in Business and Technology**

The Ivy College of Business offers graduate work leading to the Doctor of Philosophy degree in business and technology, with one of six specializations—entrepreneurship (ENTSP), finance, (FIN), management information systems (MIS), management (MGMT), marketing (MKT), or supply chain management (SCM). Departments in the college (Finance, Management and Entrepreneurship, Marketing, Supply Chain Management, and Information Systems and Business Analytics), along with select other departments from across campus cooperate in providing coursework toward this degree. The program prepares individuals for academic careers in research, teaching, and public service at institutions of higher learning in the United States and other countries. The program consists of seminars in content areas, statistics, and research methodology in the first two years. After passing comprehensive exams, students will focus on their dissertation.

This 74-credit program requires a minimum of four years to complete. All work, including the dissertation, must be done in residence (on campus).

For more details or application information contact the Graduate Programs office in the Ivy College of Business or visit: <https://www.ivybusiness.iastate.edu/academics/phd-program/>. (<https://www.ivybusiness.iastate.edu/academics/phd-program/>)