IOWA STATE UNIVERSITY

College of Liberal Arts and Sciences

Ivy College of Business

Proposal for a Meteorology/MBA Concurrent Degree

1. Name of the programs or majors

Meteorology

Business Administration

1. Name of the degrees

Bachelor of Science in Meteorology

Master of Business Administration

3. Name of the department(s) which administer(s) the program

Department of Geological & Atmospheric Sciences, College of Liberal Arts and Sciences

Department of Business Administration, Ivy College of Business

4. Rationale for the concurrent degree program

According to the [American Meteorological Society](https://www.ametsoc.org/ams/index.cfm/education-careers/career-guides-tools/where-do-meteorologists-work/?previewid=77B5ADBB-F824-7397-FBF97495A0F8D725), “One of the fastest growing areas for meteorologists is the private sector. There are increasing employment opportunities for meteorologists in industry, private consulting firms, and research organizations. Private sector meteorologists provide a variety of services to industries and other organizations. Some are consulting meteorologists with their own companies and others worked for corporations.  In recent years, a rapidly growing specialty in meteorology has been in the area of information services. Private companies have developed computerized information systems to provide specialized weather data and displays.”

Meteorology majors interested in management careers in the atmospheric sciences profession will benefit from earning the MBA while still at Iowa State instead of later interrupting their careers to pursue the advanced business degree. The MBA will help prepare meteorology students, choosing to work in the private sector, for long-term career success.

5. Admission procedures and requirements

The Meteorology/MBA concurrent degree is a rigorous 5-year program, and admission is selective. Candidates are expected to exhibit superior intellectual ability, strong leadership attributes, and must be highly motivated and career-focused. Significant internship/coop experience is expected.

Meteorology students interested in the concurrent degree program must apply to the MBA no later than July 1 the summer prior to their senior year. MBA admission is only considered for fall semester entry.

The following application materials are required:

* Application for an ISU Undergraduate Student Wishing to Pursue a Concurrent Graduate Degree
* Official transcripts
* GMAT (preferred) or GRE scores
* Letters of recommendation (2)
* Essays (2)
* Resume
* Admissions interview (by invitation only)

6. Requirements of the program

Degree requirements for the BS in meteorology and the MBA are unchanged in the proposed Meteorology/MBA concurrent degree. The BS in meteorology and the MBA require a minimum of 120 credit hours and 48 credit hours respectively. A maximum of nine approved credit hours may be applied toward both the BS and MBA degrees.

7. Expected enrollment

2-3 students per year.

8. If not already addressed, answer the following:

a. How will the undergraduate degree plan and graduate program of study be developed?

Meteorology students will work with the both their undergraduate advisor and the MBA academic advisor to develop a program of study for the Meteorology/MBA.

b. When will the student have a major professor?

Upon entry to the Meteorology/MBA concurrent degree (i.e., fall semester of senior year)

c. Will graduate assistantships be provided?

Students will be eligible for a graduate assistantship; however assistantships are highly competitive and not guaranteed. The Ivy College of Business offers merit-based scholarships to exceptional concurrent MBA students in the various STEM majors.

d. Will a thesis be required?

The Master of Business Administration is a coursework-only degree.

e. Who will be responsible for the administration of the program?

Sven Morgan, Professor and Chair, Department of Geological & Atmospheric Sciences, 251 Science, [smorgan@iastate.edu](mailto:smorgan@iastate.edu), 294-1837

Jacquelyn Rees Ulmer, Associate Dean for Professional Masters Programs, 2205 Gerdin, [jrulmer@iastatate.edu](mailto:jrulmer@iastatate.edu), 294-6232

f. How much time is required to complete the program? Show a sample semester-by-semester plan.

The Meteorology/MBA concurrent degree program is designed to be completed in a minimum of five academic years or ten semesters. In the first three years, meteorology students take their prescribed course requirements. The final two years are comprised of the remaining meteorology major coursework and the MBA program requirements.

g. Will students be allowed to double count credits? If so, how many?

Nine credits.

9. Attach memos showing approval by appropriate department and college committees, faculty, and administrators.

10. Proposal Contact

William Gallus, Professor, Department of Geological & Atmospheric Sciences, 3025 Agronomy, [wgallus@iastate.edu](mailto:wgallus@iastate.edu), 294-2619

Jacquelyn Rees Ulmer, Associate Dean for Professional Masters Programs, 2205 Gerdin, [jrulmer@iastatate.edu](mailto:jrulmer@iastatate.edu), 294-6232

BS in Meteorology/MBA Sample Study Plan (2018 Catalog)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Degrees | Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8 | Semester 9 | Semester 10 |
| BS in Meteor.  120 credits  (minimum) | CHEM 163 or CHEM 177  4 cr. (See notes) | PHYS 221  Classical Phys. I  5 cr. | PHYS 222  Classical Phys. II  5 cr. | STAT 105  Stats for Engrs.  3 cr. | MTEOR 311  Synoptic Mteor.  2 cr. | MTEOR 443  Dynamic Mteor. I  3 cr. | MTEOR 454  Dyn. Mteor II  3 cr. | MTEOR 417  Forecast. Lab  3 cr. | MTEOR 499  Sr. Research  2 cr. | MTEOR  Elective  3.cr |
|  | CHEM 163L or CHEM 177L  1 cr. | MTEOR 206  Climate  3 cr. | MTEOR 227  Comp. Program.  3 cr. | MTEOR 301  General Mteor.  4 cr. | MTEOR 341  Atmos. Physics I  3 cr. | MTEOR 342  Atmos. Physics II  3 cr. | MTEOR 411  Synoptic Mteor.  3 cr. | MTEOR 432  Intstrument.  3 cr. | MTEOR  Elective  3.cr | MTEOR  Elective  3.cr |
|  | MATH 165  Calculus I  4 cr. | MATH 166  Calculus II  4 cr. | MATH 265  Calculus III  4 cr. | MATH 266  Diff. Equations  3 cr. | Foreign Lang./  Elective  3/4 cr. | Foreign Lang./  Elective  3/4 cr. |  |  | SSH  Choice  3 cr. |  |
|  | ENGL 150  Crit. Thinking  3 cr. | SSH  Choice  3 cr. | ENGL 250  WOVE  3 cr. | SP CM 212  Public Speak.  3 cr. | SSH  Choice  3 cr. | ENGL 309  Proposal Writing  3 cr. |  |  |  |  |
|  | MTEOR 111  Synoptic Appl.  1 cr |  | MTEOR 201  Intro. Seminar  R cr. | SSH  Choice  3 cr. | SSH  Choice  3 cr. | SSH  Choice  3 cr. |  |  |  |  |
|  | MTEOR 112  Orientation  1 cr. |  |  |  |  |  |  |  |  |  |
|  | SSH  Choice  3 cr. |  |  |  |  |  |  |  |  |  |
|  | LIB 160  Info. Literacy  1 cr. |  |  |  |  |  |  |  |  |  |
| MBA  48 credits  (minimum) |  |  |  |  |  |  | BUSAD 502 Quant. Analy.  3 cr | FIN 501  Finance  3 cr | MGMT 503  Bus & Society  3 cr | MBA  Elective  3 cr |
|  |  |  |  |  |  |  | ACCT 501  Accounting  3 cr | MKT 501  Marketing  3 cr | MGMT 504  Strategy  3 cr | MBA  Elective  3 cr |
|  |  |  |  |  |  |  | ECON 532  Mgrl Econ. 3 cr.  (SSH Choice) | SCM 501  SCM  3 cr | MBA  Elective  3 cr | MBA  Elective  3 cr |
|  |  |  |  |  |  |  | MGMT 502  Org. Behavior  3 cr | MIS 501  MIS  3 cr |  |  |
|  |  |  |  |  |  |  | BUSAD 592  Prof Skills I  R cr | BUSAD 594  Prof Skills II  R cr |  |  |
| BS Meteor 120 cr. | 18 cr. | 15 cr. | 15 cr. | 16 cr. | 14-15 cr. | 15-16 cr. | 9 cr. | 6 cr. | 8 cr. | 6 cr. |
| MBA 48 cr. |  |  |  |  |  |  | 15 cr. | 15 cr. | 9 cr. | 9 cr. |
| Shared Cr. (9) |  |  |  |  |  |  | (6 cr.) | (3 cr.) |  |  |
| Total 159 cr (min) | 18 cr. | 15 cr. | 15 cr. | 16 cr. | 14-15 cr. | 15-16 cr. | 18 cr. | 18 cr. | 17 cr. | 15 cr. |

*Notes:*

Students taking CHEM 177 should plan to take CHEM 178 as well

Nine credits may be applied to both the BS in Meteorology and the MBA including ECON 532 (SSH Choice), MTEOR 411, and MTEOR 417.

ECON 101 is recommended, but not required, as a Social Sciences choice course as a prerequisite to ECON 532 in the MBA program. Instructor permission to waive ECON 101 prerequisite.

Twelve credits of MBA electives must be 500 level courses from the Ivy College of Business.