

## What can I do with a major in **METEOROLOGY** from Valparaiso University?

### Description of major:

Meteorologists deal with the motions, processes, and influences of the atmosphere, which is the air that surrounds the earth. By using satellites, computers, and telecommunications, meteorologists observe, analyze, and forecast changes in the atmospheric system. The research of meteorologists has helped in aircraft design, air pollution control, safe travel, water conservation, urban planning, disease control, and other concerns.

### Relevant skills for a METEOROLOGY major:

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|---|--|--|
| ◆ Act as a team player                            | ◆ Have self-management skills                                | ◆ Understand, program and use information derived from computers |
| ◆ Analyze, interpret, & evaluate                  | ◆ Interest in nature   | ◆ Understand and use maps  |
| ◆ Communicate, both orally and in writing         | ◆ Know mathematics thoroughly                                | ◆ Work with people of varied backgrounds                         |
| ◆ Compute numbers                                 | ◆ Make appropriate decisions and solve quantitative problems | ◆ and others!  |
| ◆ Conduct and clearly explain scientific research | ◆ Read, write, speak, and memorize proficiently              |  |
| ◆ Coordinate work with others                     | ◆ Skilled at presenting information                          |  |
| ◆ Enjoy travel                                    | ◆ Solve problems   |  |
| ◆ Have acute spatial and form perception          | ◆ Think critically   |  |
| ◆ Have aptitude for details                       |  |  |

### Sample work activities for Graduates in METEOROLOGY (some may require an advanced degree)

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|--|--------------------------------|--------------------------------|
| • Applied or Engineering Meteorologists          | • Environmental Consultant     | • Physical Meteorologists      |
| • Cartographer                                   | • Forecasters                  | • Researcher                   |
| • Civil Service Meteorologist, US Armed Services | • Hydrocarbon/Mineral Explorer | • Synoptic Meteorologists      |
| • Climatologists                                 | • Instrumentation Specialists  | • Teacher, Secondary Education |
| • Computer Modeller                              | • Media Meteorologist          | • Technical Writer             |
|  | • Museum Curator               | • and others!                  |

### Potential hiring institutions for METEOROLOGY majors:

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|------------------------------------|--|----------------------------|
| ◆ Aerospace                        | Agency   | ◆ National Weather Service |
| ◆ Airlines                         | ◆ Laboratories   | ◆ Oil Companies            |
| ◆ Departments of Natural Resources | ◆ Media – Television stations, radio stations, newspapers, magazines | ◆ Power Companies          |
| ◆ Meteorological Consulting Firms  | ◆ Mining Companies   | ◆ Schools                  |
| ◆ Environmental Protection         | ◆ Museums  | ◆ U.S. Armed Services      |
|                                    |  | ◆ and others!              |

## Area of further education for METEOROLOGY majors:

- Agronomy
- Astrophysics
- Atmospheric Sciences
- Chemistry
- Climatology
- Computer Science
- Education
- Environmental Science
- Geography
- Geophysics & Seismology
- Meteorology
- Oceanography
- Physics
- Planetary & Space Sciences
- and others!

## Sources of additional information for METEOROLOGY majors:

- VU Department of Geography and Meteorology: <http://www.valpo.edu/geomet/>
- Occupational Outlook Handbook: the US Bureau of Labor Statistics compiles information about various occupations, including the nature of the work, the job outlook, the earnings, and other relevant information. <http://www.bls.gov/oco/oco1002.htm>
- America's Job Bank: biggest and busiest job market in cyberspace. Job seekers can post their resume where thousands of employers search every day, search for job openings automatically, and find their dream job fast. Employers can post job listings in the nation's largest online labor exchange, create customized job orders, and search resumes automatically to find the right people fast. Created by the U.S. Department of Labor (DOL) <http://www.ajb.dni.us/>
- American Association for the Advancement of Science: the world's largest general science organization and publisher of the peer-reviewed journal Science. Serves as an authoritative source for information on the latest developments in science and bridges gaps among scientists, policy-makers and the public to advance science and science education. Site includes a Careers page that includes information on fellowships, internships, career fairs, and job listings. <http://www.aaas.org/>
- American Meteorological Society: promotes the development and dissemination of information and education on the atmospheric and related oceanic and hydrologic sciences. Includes employment opportunities. <http://www.ametsoc.org/AMS/>
- CYBER-SIERRA'S Natural Resources Job Search: articles and job opportunities.
- <http://www.cyber-sierra.com/nrjobs/index.html>
- Earthworks: Positions listed for various sciences as well as graduate, post-graduate & professional development courses. <http://www.earthworks-jobs.com>
- Environmental Careers Organization: a national, non-profit, educational organization that protects and enhances the environment through the development of diverse leaders, the promotion of careers, and the inspiration of individual action. This is accomplished through internships, career advice, career products, and research and consulting. <http://www.eco.org/>
- Meteorological Employment Journal: A journal devoted to listing current meteorology and related atmospheric science jobs. We have the most comprehensive and current listing of meteorology jobs openings available. <http://www.swiftsite.com/mejjobs/>
- National Oceanic and Atmospheric Association – US Department of Commerce: The official website of the NOAA, a government organization for and about the study of the atmosphere. Includes an education section and job opportunities. <http://www.noaa.gov/>
- National Science Foundation: an independent U.S. government agency responsible for promoting science and engineering through programs that invest over \$3.3 billion per year in almost 20,000 research and education projects in science and engineering. Site includes a listing of scholarships and fellowships as well as a page for Students under their "Special Programs" and Vacancy announcements under their "Online Documents". <http://www.nsf.gov/>
- National Weather Association: a professional nonprofit association that serves individuals interested in operational meteorology and related activities. Includes Weather Job Announcements <http://www.nwas.org/>
- Science Magazine's Next Wave: the career development resource for scientists. <http://nextwave.sciencemag.org/>
- USA JOBS: The U.S. Government's official site for jobs and employment information provided by the United States Office of Personnel Management. <http://www.usajobs.opm.gov/>

## **VU Career Center Resource Library Materials:**

- *Book Of U.S. Government Jobs : Where They Are, What's Available, And How To Get One*
- *Career Opportunities In Science*
- *Careers For Number Crunchers & Other Quantitative Types*
- *Careers In Mathematics [Computer File]*
- *Electronic Federal Resume Guidebook & CD-ROM*
- *Federal Personnel Guide 2003*
- *GRE Exam 2003*
- *Guide To America's Federal Jobs : A Complete*
- *Directory Of Federal Career Opportunities*
- *Opportunities In Government Careers*
- *Peterson's Graduate Programs In Engineering & Applied Sciences*
- *Peterson's Graduate Programs In The Physical Sciences, Mathematics, Agricultural Sciences, The Environment & Natural Resources*
- *Resumes For High Tech-Careers*
- *Resumes For Scientific And Technical Careers and others!*

## **For more information about majoring in METEOROLOGY, contact:**

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**For more questions about your career decisions, please make an appointment with a VU Career Counselor by calling 464-5005, stopping by the Career Center in Alumni Hall or e-mailing us at [Career.Center@valpo.edu](mailto:Career.Center@valpo.edu)**

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