| Program: Atmospheric Sciences (BS and BSAts) | | | | | | |
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| | **Goals** | **Objectives** | **Data** | **Analysis** | **Feedback** | **Changes** |
| 1 | Provide a basic understanding of the earth's atmosphere to the general student | Demonstrated competency in a survey course on atmospheric science and climate | selected question scores in ATS 113 across sections tabulated by instructors via blueline | Individual questions are tracked by semester and by teacher to assess trends in the students' understanding. | Instructors meet to discuss the trends and suggest changes to methods to improve student achievement. | Instructors adapt teaching methods based on feedback to incorporate best practices. |
| 2 | Understand the principles of physical and dynamic meteorology | Competency in core courses on dynamic (571) Physical (510) and Synoptic (562) | performance on an assessment exam taken in ATS 211 are compared with the same exam taken in the senior year | Exam system has been recently developed. Students haven't taken both exams | | |
| 3 | Apply fundamental principles to specific topics in atmospheric sciences | Competency in courses on remote sensing and quantitative methods | tabulation of anonymous course grades in ATS 555 and ATS 570 | new procedure | | |
| 4 | Understanding of areas related to the atmospheric sciences | Competency in prerequisite courses on physics, calculus and differential | Tabulation of anonymous course grades in MTH 245, 246 and PHY 211, 212 | new procedure | | |
| 5 | Skills in technology related to the atmospheric sciences | Competency in introductory and advanced courses on computer methods in | Tabulation of anonymous course grades in ATS 315 and ATS 570 | new procedure | | |
| 6 | Communicate effectively orally and in writing on issues related to the atmosphere | Competency in ATS certified writing courses and courses requiring oral presentations | Tabulation of anonymous course grades in ATS 510, oral presentation rubric | New procedure for ATS 510, data being tabulated. 3 years of data on oral presentations | No clear trends on oral presentations. Students meet or exceed | |

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| **University Goals** | 1. A Creighton graduate will demonstrate disciplinary competence and/or professional proficiency. | 2. A Creighton graduate will demonstrate critical thinking skills. | 3. A Creighton graduate will demonstrate a disposition to service and engaged civic responsibility. | 4. A Creighton graduate will demonstrate an ability to communicate clearly and effectively in written and oral forms. | 5. A Creighton graduate will demonstrate a disposition toward life long learning. | 6. A Creighton graduate will demonstrate cultural competence, enabling effective work across racial, ethnic and cultural lines. | |
| | ATS goals 2, 3, 4, 5, 6 | ATS goals 2, 5 | | ATS goal 6 | | | |
| **College Goals** | 1. Communicate clearly and effectively in written, spoken, mathematical, and artistic languages. | 2. Think critically about information, assumptions, and arguments found in multiple forms of academic and cultural discourse. | 3. Integrate broad and diverse learning with at least one individually chosen discipline or professional field. | 4. Know the Christian, Catholic, and Jesuit intellectual traditions in the context of historical, cultural and spiritual concerns. | 5. Apply a reasoned approach to effective decision-making according to sound and coherent ethical principles. | 6. Relate an active commitment to learning, truth, and justice to a life of service and to the development of the global Community. | 7. (Demonstrate an understanding of the diversity of human identities and cultures in the United States and around the world) |
| **Program Goals** | ATS goals 4, 6 | ATS goals 2, 3, 5 | ATS goals 2, 3, 4, 5 | | ATS goals 2, 3, 6 | | |
| **Program Goals 2** | | | | | | | |
| **Program Goals 3** | | | | | | | |
| **Program Goals 4** | | | | | | | |
| **Program Goals 5** | | | | | | | |