

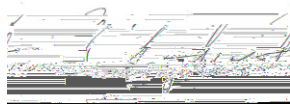
| LEARNING OUTCOMES | LEARNING ACTIVITIES | EVALUATION METHODS |
|--|--|----------------------|
| 2. Explain the role of constellations and the concepts and terminology associated with the celestial sphere. | Lecture/Discussion Laboratory Exercises Telescope, Binocular and Other Night Sky Observations Field Trip to Local Planetarium Observational Journal Sketching | Laboratory Exercises |

Spangler, Kelli. AST 120 Lab Manual 2011.

Other learning materials may be required and made available directly to the student and/or via the _____ and/or course management system.

COURSE APPROVAL:

| | |
|--|-------------------|
| Prepared by: Dr. Peter J. Bachmann | Date: 4/1997 |
| Revised by: Dr. Peter J. Bachmann | Date: Summer 2004 |
| Revised by: Kelli Spangler, Lecturer of Astronomy | Date: 2/10/2009 |
| Revised by: Kelli Spangler | Date: Spring 2011 |
| Interim VPAA/Provost Compliance Verification: Victoria L. Bastecki-Perez, Ed.D. | Date: 5/17/2011 |
| Revised by: Kelli Spangler | Date: 6/2012 |
| VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D. | Date: 6/19/2012 |
| Revised by: Kelli Spangler | Date: 8/2013 |
| VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D. | Date: 8/7/2013 |
| Revised by: Debbie Dalrymple | Date: 11/13/2017 |
| VPAA/Provost or designee Compliance Verification: Victoria L. Bastecki-Perez, Ed.D. | Date: 12/18/2017 |
| Revised by: Kelli Spangler | Date: 6/7/2023 |
| VPAA or designee Compliance Verification: | Date: 6/7/2023 |



was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.