**SUFFOLK COUNTY COMMUNITY COLLEGE**

**ABBREVIATED COLLEGE COURSE SYLLABUS FORM**

A course syllabus is not the same as a course outline. A course syllabus outlines the general requirements for a course. A course outline is the specific document created by the individual faculty member to distribute to a specific course section. This is an “abbreviated” course syllabus because it is only collecting information on the course number, title, description, and learning outcomes. Please submit this completed form electronically to Dean Britton.

PLEASE NOTE: Any changes made to the Course Number, Title, or Catalog Description must go through the regular faculty governance process. This Expedited Process of Approval, which expires in March 2012, only pertains to approval of the Learning Outcomes. Therefore, this is NOT the form to be used to change course numbers, titles, or descriptions. This is NOT the form to use for proposing a new course. (See the Governance website for those types of proposals.)

**I. Course Number and Title:**

AST102 – Astronomy of Stars and Galaxies

**II. Catalog Description:**

Introduction to fundamental aspects of universe beyond our solar system. Topics include properties of electromagnetic radiation and its relation to study of celestial objects; structure, classification and evolution of stars, nebulae, star clusters, galaxies, and material between stars. Age, origin and evolution of universe studied in terms of modern cosmology. Occasional evening observations required. (3 hrs. lecture, 2 hrs. laboratory.) Offered on: A-E-G / 4 cr. hrs.

4.000 Credit Hours
3.000 Lecture hours
2.000 Lab hours

**III. *Learning Outcomes:* (Main concepts, principles, and skills you want students to learn from this course) The Learning Outcomes listed here should be considered the minimum core outcomes for the course. Many other learning outcomes may also be a part of the learning experience within the course.

Upon completion of this course, students will be able to:

- Make measurements using the metric system and perform simple forms of data analysis to enhance problem solving skills.
- Understand the night sky by knowing major stars and constellations as well as tracking the motions of the sky, the Moon, and planets.
- Understand the scientific method and how it applies to astronomy.
- Know the properties of light and how these properties are used to gather information.
- Know the structure and surface features of the Sun and how the Sun affects life on Earth.
- Trace the evolution of stars from birth to death. This includes the structure and characteristics of stars as they go through the different stages of their life cycles.
- Know how stars are grouped together (star clusters and galaxies) and the properties of these groupings.

*These statements must appear verbatim in course outlines. However, additional outcomes may be added to individual course outlines at the instructor’s discretion.

Revised 1/10
• Have a clear understanding of the scale of the universe and our position within it.
• Understand how our acquisition of information is limited by factors such as errors in our measurements and our position within the universe.
• Gain a sufficient understanding of astronomical phenomena in order to have an appreciation for recent developments in the field.

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Name of Discipline Lead: ____________________________________________

Discipline Vote:

For__________ Against__________ Abstention__________

Date of Vote:__________

_(Initial and Date)_________ Certification of Vote by AVP of Academic Affairs

_(Initial and Date)_________ Certification of Vote by College Curriculum Chair

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Revised 1/10