

Osher Lifelong Learning Institute at Iowa State University

For Curriculum Committee use		
Semester(s) this course was previously offered:	Proposal Number:	F10-3

COURSE PROPOSAL

Please complete this form with the understanding that you may revise the course description and topics before the catalog is finalized. To see a catalog from last semester, go to the OLLI at ISU Web site: http://www.isualum.org/en/olli_at_isu/

If you are completing this form using Microsoft Word, note that it is done in tables form. To see (or to hide) the gridlines, click the Table menu and click Show Gridlines (or Hide Gridlines).

Voyages of Discovery: Copernicus to the Big Bang

1. Course title: _____
Science

2. General field of interest (e.g., Science, Music): _____

3. Curriculum Committee contact person: Sam Wormley

Address: 1205 Scholl Rd City: Ames Zip: 50014

Phone: 515 296-2627 E-mail: swormley1@gmail.com

4. Instructor or coordinator: Sam Wormley

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Phone: 515 296-2627 E-mail: swormley1@gmail.com

Brief background of instructor (all or part of this will be used in the catalog):

Sam Wormley is a retired Associate Scientist and Principal Investigator, CNDE/IPRT/AL at Iowa State and is currently Adjunct Professor of Astronomy teaching at Marshalltown Community College.

5. Course description that can be used to advertise the course in the catalog (you may revise this later if you wish).

Same as: <http://edu-observatory.org/olli/VD-C2BB/index.html>

In 1543, Nicolas Copernicus published, "On the Revolutions of Heavenly Spheres", which began the first of three revolutions in cosmology. This is where we begin our eight week course--learning about some of the major players, discovering the unfolding universe, and making the case for modern cosmology, while addressing the mysteries of Dark Matter and Dark Energy.

6. Specific topics to be covered in the number of classes proposed:

- o Nicolas Copernicus
- o Tycho & Kepler
- o Isaac Newton & the Kepler Problem
- o Miraculous Year (1905)
- o Hubble and the Expanding Universe
- o Runaway Universe
- o Massive Black Holes are Major Players
- o The Big Bang: Putting all the Pieces Together

This paragraph should be on page 2. If you needed more space than was provided on page 1, this paragraph will have moved to page 3. To move it back to page 2, click before the first word of this paragraph and press Backspace to remove the page break.

7. Preferred

class size: ___ 15 or less ___ 16-25 x 26-35 ___ 36-45 ___ 46-55 ___ 55 or more

8. Preferred session

(include year) : ___ x ___ Sept.-Nov. ___ Jan.-Feb. ___ March-May

9. Preferred number of

weeks and sessions: ___ 4 weeks ___ 6 weeks x 8 weeks
 ___ x ___ Once a week ___ Twice a week

10. Check preferred class time. Put N/A where you are not available.

	Monday	Tuesday	Wednesday	Thursday	Comments
9:00-10:30			x		
11:00-12:30					
1:00-2:30					
3:00-4:30					

11. Recommended textbook (if any): None

Where to obtain: _____
 Cost of textbook: _____
 Students will pay: ___ Instructor ___ OLLI at ISU when registering

12. Copying:

If a large quantity of printed materials is proposed, materials may be offered as a packet to be handed out at the beginning of the semester. Cost of printing, if substantial, may be added to cost of course.

Estimated number of pages to be copied for each session: None

13. Requested equipment

Please check choices. (A more detailed form will be provided for your use before classes begin.)

x DVD player ___ LCD projector ___ 35mm slide projector
x VHS player ___ Elmo (opaque) projector x Lapel microphone
 ___ CD player ___ Overhead transparency projector ___ Laser pointer

Online Computer accessing the internet

14. Please list any potential guest presenters and city in which they live:

15. Is travel reimbursement requested? ___ Yes x No