

Syllabus – Fall 2018 – PTYS 595B

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**Communicating Science (2 Credits)**

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Lecture Times: Wednesday 1:00–3:00pm  
Classroom: 301 Kuiper Space Sciences Building\*\*  
Primary Instructor: Prof. Vishnu Reddy, Associate Professor  
Office: 233 Kuiper Space Sciences Building  
Office Hours: Monday and Tuesday 10:00–11:00 am, or by appointment  
E-mail: [reddy@lpl.arizona.edu](mailto:reddy@lpl.arizona.edu)  
Telephone: 808-342-8932

\*\* I expect the class to be an active learning experience and asked us to be put in 301. If there is an oral exam or meeting in 301, we will move to 312.

**Course Content, Goals, and Objectives:**

This course will help students prepare for successful careers in science and related fields through lectures, group discussions, and assignments related to: research proposals, alternative job opportunities, scientific publications, communication, and teaching/mentoring. The course will also feature a wide range of invited speakers to help provide a broad perspective on pertinent issues.

**Workload Expectation and Requirements:**

- Workload Expectations: Students are expected to attend lectures, participate in discussions, and complete homework assignments, including peer-review.
- Office Hours: I will be available for questions and discussion on Mondays and Tuesdays (10:30–11:30 am) and I will be available by appointment if you require additional assistance.
- There are no prerequisites for this course.

**Grading:**

Grading for this course will be: S, P, F (Superior, Pass, Fail) based on:

Participation:	30%
Proposal Preparation:	50%
Proposal Review:	20%

There will be no final exam.

Grades are assigned as follows: A  $\geq$ 90%

B  $\geq$ 80<90%  
C <80%

**Class Policies (Due dates, absences, late work):**

- Assignments are due at the beginning of class on the due date (or before). If an assignment is due, you are responsible for turning it in, even if you are absent from class. Late work will not be accepted unless arrangements are made prior to the due date.
- Absences for university-approved activities for which you have in advance a note of dean's approval will be excused, or other arrangements will be made. If you will be absent due to a religious holiday, please let me know in advance. Absences for other reasons will not be excused unless special dispensation was received prior to the deadline.

**Academic integrity:**

- Students are encouraged to discuss the structure of their projects with other students; however, previously completed class projects may not be submitted for credit and evaluated material is expected to be your work and your work only.
- You are expected to know and to abide by the University's Academic Integrity policy. The details are at <http://deanofstudents.arizona.edu/codeofacademicintegrity>.

**Students with Disabilities:**

- At the University of Arizona we strive to make learning experiences as accessible as possible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, you are welcome to let me know so that we can discuss options. You are also encouraged to contact Disability Resources (520-621-3268) to explore reasonable accommodation. Please be aware that the accessible table and chairs in Room 312 should remain available for students who find that standard classroom seating is not usable.

**Revision of the Syllabus:**

- The course workload and course requirements (i.e., content, reading materials, and the structure of graded assignments) are subject to change, with reasonable advanced notice, as deemed appropriate by the instructor.

**Class Schedule:**

*Week 1 (Aug. 22) Introduction*

*Week 2 (Aug 29) Proposals I: Understanding the Review Process and Proposal Requirements, Guest Lecture: Dr. Sherry Fieber-Beyer, University of North Dakota, Topic: NESSF Proposals 2-3 pm*

*Week 3 (Sept. 5) Proposals II: Formulating a Proposal Idea and Building a Proposal Team, Guest Lecture: Dr. Kim Patten, Director of*

*Research Development Service, University of Arizona.*

- Week 4 (Sept. 12) Vishnu on Travel (Class will be taught remotely via Zoom)  
Proposals III: Budgets (Guest Lecture: Mark Sykes, Planetary  
Science Institute 2-3 pm)*
- Week 5 (Sept. 19) Proposals IV: Presentation of the Proposal Assignment  
Guest Lecture: Kristen Douglas, Federal Relations, University of  
Arizona. Topic of Discussion: How DC works.*
- Week 6 (Sept. 26) Vishnu on Travel (Class will be taught remotely via Zoom)  
Communication I: How to write a press release for your journal  
paper? Guest Lecture: Daniel Stolte, Science Writer, University  
Communications*
- Week 7 (Oct. 3) Vishnu on Travel (Class will be taught remotely via Zoom)  
Communication II: Publishing Papers (Guest Lecture: Will  
Grundy, Icarus Editor, 2:30-3 pm)*
- Week 8 (Oct. 10) Proposals V: Mock Review Panel Part 1*
- Week 9 (Oct. 17) Proposals VI: Mock Review Panel Part 2*
- Week 10 (Oct. 24) Vishnu on Travel (Class will be taught remotely via Zoom)  
Communication III: Developing Your Own Collaborations*
- Week 11 (Oct. 31) Communication IV: Conflict Mitigation and Resolution*
- Week 12 (Nov. 7) Teaching and Mentoring I: Learner-Centered Teaching Practices*
- Week 13 (Nov. 14) Teaching and Mentoring II: Engagement in Large Undergraduate  
Classes*
- Week 14 (Nov. 21) Teaching and Mentoring III: Effective Mentoring Strategies*
- Week 15 (Nov. 28) Teaching and Mentoring IV: Applying for Teaching Positions*
- Week 16 (Dec. 05) Best Research Practices*

**Textbook Requirements:**

- No textbook are required for this course.