

# AS 202 (A2): Prin of Astro 1

Fall17 | Benjamin Roulston

11 | Students Enrolled

7 | Students Responded

63.64% | Response Rate

## Quantitative

	(1) Low	(2)	(3)	(4)	(5) High	N	DNA	SD	M
Relevance of assigned readings	0% (0)	0% (0)	42.86% (3)	14.29% (1)	42.86% (3)	7	0	0.93	4

	Easy	Moderately Easy	Neither Easy nor Difficult	Moderately Difficult	Difficult	N	DNA	SD	M
Difficulty of course	0% (0)	28.57% (2)	42.86% (3)	28.57% (2)	0% (0)	7	0	0.76	3

	Light	Moderately Light	Neither Light nor Heavy	Moderately Heavy	Heavy	N	DNA	SD	M
Workload in course	0% (0)	42.86% (3)	42.86% (3)	14.29% (1)	0% (0)	7	0	0.7	2.71

Course Evaluation	Poor	Fair	Good	Very Good	Excellent	N/A	N	DNA	SD	M
Overall rating of discussion instructor (if applicable)	0% (0)	0% (0)	28.57% (2)	0% (0)	28.57% (2)	42.86% (3)	7	0	1	4
Overall rating of lab instructor (if applicable)	0% (0)	0% (0)	14.29% (1)	14.29% (1)	71.43% (5)	0% (0)	7	0	0.73	4.57
Usefulness of assignments and papers	0% (0)	0% (0)	28.57% (2)	42.86% (3)	28.57% (2)	0% (0)	7	0	0.76	4
Overall course rating	0% (0)	0% (0)	28.57% (2)	28.57% (2)	42.86% (3)	0% (0)	7	0	0.83	4.14

Faculty Evaluation	Poor	Fair	Good	Very Good	Excellent	N	DNA	SD	M
Effectiveness in explaining concepts	0% (0)	0% (0)	14.29% (1)	14.29% (1)	71.43% (5)	7	0	0.73	4.57
Ability to stimulate interest in subject	0% (0)	14.29% (1)	14.29% (1)	42.86% (3)	28.57% (2)	7	0	0.99	3.86
Encouragement of class participation	0% (0)	0% (0)	28.57% (2)	14.29% (1)	57.14% (4)	7	0	0.88	4.29
Fairness in grading	0% (0)	0% (0)	0% (0)	57.14% (4)	42.86% (3)	7	0	0.49	4.43
Promptness in returning assignments	0% (0)	28.57% (2)	28.57% (2)	28.57% (2)	14.29% (1)	7	0	1.03	3.29
Quality of feedback to students	0% (0)	14.29% (1)	0% (0)	28.57% (2)	57.14% (4)	7	0	1.03	4.29
Availability outside of class	0% (0)	14.29% (1)	0% (0)	28.57% (2)	57.14% (4)	7	0	1.03	4.29
Overall rating of instructor	0% (0)	0% (0)	0% (0)	42.86% (3)	57.14% (4)	7	0	0.49	4.57

TF/TA Evaluation	Poor	Fair	Good	Very Good	Excellent	N	DNA	SD	M
Preparation for class	0% (0)	0% (0)	42.86% (3)	0% (0)	57.14% (4)	7	0	0.99	4.14
Command of the subject	0% (0)	0% (0)	28.57% (2)	14.29% (1)	57.14% (4)	7	0	0.88	4.29
Ability to convey facts and explain key concepts in a digestible manner	0% (0)	0% (0)	42.86% (3)	14.29% (1)	42.86% (3)	7	0	0.93	4
Enthusiasm for the subject and ability to stimulate student interest	0% (0)	0% (0)	57.14% (4)	28.57% (2)	14.29% (1)	7	0	0.73	3.57
Availability outside of class time	0% (0)	0% (0)	42.86% (3)	14.29% (1)	42.86% (3)	7	0	0.93	4
Quality of evaluation of work	0% (0)	14.29% (1)	28.57% (2)	28.57% (2)	28.57% (2)	7	0	1.03	3.71
Promptness of return or graded assignments and communication of standing in class	0% (0)	14.29% (1)	57.14% (4)	0% (0)	28.57% (2)	7	0	1.05	3.43

<i>Other</i>	Poor	Fair	Good	Very Good	Excellent	N	DNA	SD	M
Clarity and achievement of course objectives	0% (0)	0% (0)	28.57% (2)	28.57% (2)	42.86% (3)	7	0	0.83	4.14
Effectiveness of the use of class time	0% (0)	0% (0)	28.57% (2)	28.57% (2)	42.86% (3)	7	0	0.83	4.14
Value of course toward development of intellectual skills (critical analysis, written/oral communication, research)	0% (0)	0% (0)	28.57% (2)	0% (0)	71.43% (5)	7	0	0.9	4.43
Level of intellectual stimulation of the course	0% (0)	0% (0)	28.57% (2)	57.14% (4)	14.29% (1)	7	0	0.64	3.86
Value of lab/discussion as a supplement to lecture/reading	0% (0)	0% (0)	28.57% (2)	14.29% (1)	57.14% (4)	7	0	0.88	4.29

  

<i>Professor</i>	Poor	Fair	Good	Very Good	Excellent	N	DNA	SD	M
Professor's preparation for class	0% (0)	0% (0)	14.29% (1)	28.57% (2)	57.14% (4)	7	0	0.73	4.43
Professor's command of the subject	0% (0)	0% (0)	14.29% (1)	14.29% (1)	71.43% (5)	7	0	0.73	4.57
Professor's enthusiasm for subject of the course	0% (0)	14.29% (1)	0% (0)	0% (0)	85.71% (6)	7	0	1.05	4.57

  

	Nobody	Only majors/minors	Only majors/minors with great interest in subject	Students seeking distribution/divisional studies credit	Students seeking an interesting elective	N	DNA	SD	M
To whom would you recommend this course?	0% (0)	42.86% (3)	28.57% (2)	14.29% (1)	14.29% (1)	7	0	-	-

  

	Less than 1 hr.	1 -3 hrs.	3 - 5 hrs.	5 - 10 hrs.	More than 10 hours	N	DNA	SD	M
How much time per week outside class did you spend on the course?	0% (0)	57.14% (4)	14.29% (1)	28.57% (2)	0% (0)	7	0	-	-

  

	F	D	C	B	A	N	DNA	SD	M
What grade do you expect in the course solely based on work completed so far?	0% (0)	0% (0)	14.29% (1)	42.86% (3)	42.86% (3)	7	0	-	-

## Qualitative

### STRENGTHS of the course and of the Instructor: -

- Great explainer
- Ben is just the best. He is so good at explaining concepts and he understands astronomy very well. He is very considerate and is willing to re-explain concepts if you don't get them the first time. He is encouraging and kind. He is also very available outside of class via email or in office hours. Ben has a great sense of humor and he is super amicable.
- Very happy to teach the subject. Good at explaining concepts Comes prepared
- - very knowledgeable, approachable
- Ben is a great guy. He's really approachable and good natured and great for teaching a freshman physics lab. He knows is stuff and is receptive to even stupid questions. Great job. The labs were for the most part fun
- Great at explaining the concepts behind labs

### WEAKNESSES of the course and of the Instructor: -

- Nobe
- The solar lab, just cause we were sifting through the data on the computer. Ben knew this though, and even apologized. Not a big deal, just something to consider
- Took long time to return full lab reports
- Ben doesn't have weaknesses, Ben is amazing.
- Nothing

**General Comments: -**

- Great
- Isaac and Ben are the only reason I am not failing this class. I have really enjoyed working with and learning from them. I think they do an excellent job as teaching fellows and I will miss their friendship and guidance next semester. Best of luck in grad school!
- The labs were all fun and helped me understand concepts
- This course did a good job supplementing what I learned in lecture.
- Good

**What were the most positive aspects of the course? -**

- The telescope
- Ben and the day labs. They tended to be fun.
- - I loved observing saturn
- Application of concepts learned in class. Fun Labs
- The experiments that we did in class were both informative and enjoyable. They were the best part. I especially liked working with the TFs and my classmates.
- H

**What, if any, changes would you recommend for the next offering of the course? Be as specific as possible. -**

- G
- Somehow make the solar lab a little bit less tedious. If that is possible.
- For the solar rotation lab a more accurate or more efficient way if collecting data would be helpful. It was extremely difficult to find any relationship between period and latitude with the degree of accuracy we had.
- - the crater lab didn't really teach me much...
- Returning the labs before the last week of classes. Also nixing the solar lab or doing it with the telescope
- More telescope time

**What, if any, adjustments would you recommend to the instructor's teaching method or style? -**

- None
- 
- None
- T

**Comment on the feedback you received from the instructor of the course. Was it useful? -**

- N
- Ben's feedback was very helpful. They taught me a lot about how to write a good lab report.
- Feedback on labs was helpful. More feedback on homework would be helpful
- yes
- Yes, though scarce
- All useful

**Comment on the frequency and length of assignments, exams, and lab reports. -**

- Not too lengthy
- Appropriate
- course load was light, but that was good as it gave me time to concentrate on lecture homework
- There was the right amount of lab reports. It would have been better to spread the due dates out a little more so they weren't all due at one time.
- The assignments for night and day lab were challenging but manageable.
- li

**Comment on the selection and amount of reading. Which readings were the most and which were the least valuable? Why? -**

- Ce
- We didn't really do any reading...
- Ben's pre-labs were good. The kepler lab packet was quite honestly a f...ing nightmare
- All valuable

**Comment on the TA/TF or lab instructor for the course. What did he/she do well? What could he/she improve? - TA/TF name:**

- TA/TF name: Name
- TA/TF name: Ben
- TA/TF name:
- TA/TF name: Ben Roulston
- TA/TF name:
- TA/TF name:
- TA/TF name: -
- Comments: Good at explaining the process of labs
- Comments: Great
- Comments: Ben does everything well. He is good at explaining concepts, answering questions, demonstrating how problems ought to be done, giving feedback, and encouraging students.
- Comments: Great, change nothing.
- Comments: None

**What skills and understanding have you gained from this course? -**

- I am a better problem solver and I know a lot more about astronomy and how to conduct and write up labs.
- None
- Writing full lab reports. Keeping effective Lab notes.
- - sunspots - calculating distance of celestial objects - what it's like to use a large telescope

# AS 202 (A3): Prin of Astro 1

Fall17 | Benjamin Roulston

13 | Students Enrolled

8 | Students Responded

61.54% | Response Rate

## Quantitative

	(1) Low	(2)	(3)	(4)	(5) High	N	DNA	SD	M
Relevance of assigned readings	0% (0)	0% (0)	25% (2)	0% (0)	75% (6)	8	0	0.87	4.5

	Easy	Moderately Easy	Neither Easy nor Difficult	Moderately Difficult	Difficult	N	DNA	SD	M
Difficulty of course	12.5% (1)	25% (2)	25% (2)	37.5% (3)	0% (0)	8	0	1.05	2.88

	Light	Moderately Light	Neither Light nor Heavy	Moderately Heavy	Heavy	N	DNA	SD	M
Workload in course	0% (0)	0% (0)	62.5% (5)	12.5% (1)	25% (2)	8	0	0.86	3.63

Course Evaluation	Poor	Fair	Good	Very Good	Excellent	N/A	N	DNA	SD	M
Overall rating of discussion instructor (if applicable)	0% (0)	0% (0)	12.5% (1)	0% (0)	50% (4)	37.5% (3)	8	0	0.8	4.6
Overall rating of lab instructor (if applicable)	0% (0)	0% (0)	0% (0)	25% (2)	75% (6)	0% (0)	8	0	0.43	4.75
Usefulness of assignments and papers	0% (0)	0% (0)	0% (0)	62.5% (5)	37.5% (3)	0% (0)	8	0	0.48	4.38
Overall course rating	0% (0)	0% (0)	0% (0)	62.5% (5)	37.5% (3)	0% (0)	8	0	0.48	4.38

Faculty Evaluation	Poor	Fair	Good	Very Good	Excellent	N	DNA	SD	M
Effectiveness in explaining concepts	0% (0)	0% (0)	0% (0)	0% (0)	100% (8)	8	0	0	5
Ability to stimulate interest in subject	0% (0)	0% (0)	0% (0)	12.5% (1)	87.5% (7)	8	0	0.33	4.88
Encouragement of class participation	0% (0)	0% (0)	0% (0)	0% (0)	100% (8)	8	0	0	5
Fairness in grading	0% (0)	0% (0)	0% (0)	12.5% (1)	87.5% (7)	8	0	0.33	4.88
Promptness in returning assignments	0% (0)	0% (0)	12.5% (1)	0% (0)	87.5% (7)	8	0	0.66	4.75
Quality of feedback to students	0% (0)	0% (0)	0% (0)	12.5% (1)	87.5% (7)	8	0	0.33	4.88
Availability outside of class	0% (0)	0% (0)	0% (0)	25% (2)	75% (6)	8	0	0.43	4.75
Overall rating of instructor	0% (0)	0% (0)	0% (0)	25% (2)	75% (6)	8	0	0.43	4.75

TF/TA Evaluation	Poor	Fair	Good	Very Good	Excellent	N	DNA	SD	M
Preparation for class	0% (0)	0% (0)	12.5% (1)	50% (4)	37.5% (3)	8	0	0.66	4.25
Command of the subject	0% (0)	0% (0)	25% (2)	25% (2)	50% (4)	8	0	0.83	4.25
Ability to convey facts and explain key concepts in a digestible manner	0% (0)	0% (0)	37.5% (3)	25% (2)	37.5% (3)	8	0	0.87	4
Enthusiasm for the subject and ability to stimulate student interest	0% (0)	25% (2)	12.5% (1)	12.5% (1)	50% (4)	8	0	1.27	3.88
Availability outside of class time	0% (0)	0% (0)	37.5% (3)	25% (2)	37.5% (3)	8	0	0.87	4
Quality of evaluation of work	0% (0)	25% (2)	0% (0)	37.5% (3)	37.5% (3)	8	0	1.17	3.88
Promptness of return or graded assignments and communication of standing in class	0% (0)	12.5% (1)	25% (2)	12.5% (1)	50% (4)	8	0	1.12	4

<i>Other</i>	<b>Poor</b>	<b>Fair</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>Clarity and achievement of course objectives</b>	0% (0)	12.5% (1)	12.5% (1)	25% (2)	50% (4)	8	0	1.05	4.13
<b>Effectiveness of the use of class time</b>	12.5% (1)	12.5% (1)	0% (0)	25% (2)	50% (4)	8	0	1.45	3.88
<b>Value of course toward development of intellectual skills (critical analysis, written/oral communication, research)</b>	0% (0)	37.5% (3)	0% (0)	0% (0)	62.5% (5)	8	0	1.45	3.88
<b>Level of intellectual stimulation of the course</b>	25% (2)	0% (0)	12.5% (1)	0% (0)	62.5% (5)	8	0	1.71	3.75
<b>Value of lab/discussion as a supplement to lecture/reading</b>	12.5% (1)	0% (0)	0% (0)	37.5% (3)	50% (4)	8	0	1.27	4.13
<i>Professor</i>	<b>Poor</b>	<b>Fair</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>Professor's preparation for class</b>	0% (0)	0% (0)	0% (0)	0% (0)	100% (8)	8	0	0	5
<b>Professor's command of the subject</b>	0% (0)	0% (0)	0% (0)	0% (0)	100% (8)	8	0	0	5
<b>Professor's enthusiasm for subject of the course</b>	0% (0)	0% (0)	0% (0)	0% (0)	100% (8)	8	0	0	5
	<b>Nobody</b>	<b>Only majors/minors</b>	<b>Only majors/minors with great interest in subject</b>	<b>Students seeking distribution/divisional studies credit</b>	<b>Students seeking an interesting elective</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>To whom would you recommend this course?</b>	0% (0)	50% (4)	12.5% (1)	25% (2)	12.5% (1)	8	0	-	-
	<b>Less than 1 hr.</b>	<b>1 - 3 hrs.</b>	<b>3 - 5 hrs.</b>	<b>5 - 10 hrs.</b>	<b>More than 10 hours</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>How much time per week outside class did you spend on the course?</b>	0% (0)	25% (2)	62.5% (5)	12.5% (1)	0% (0)	8	0	-	-
	<b>F</b>	<b>D</b>	<b>C</b>	<b>B</b>	<b>A</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>What grade do you expect in the course solely based on work completed so far?</b>	0% (0)	0% (0)	12.5% (1)	50% (4)	37.5% (3)	8	0	-	-

## Qualitative

<b>STRENGTHS of the course and of the Instructor: -</b>
<ul style="list-style-type: none"> <li>Ben was incredibly helpful in explaining concepts, answering questions, and engaging the class. His warm personality and cheery approach to astronomy made lab interesting and worthwhile. The labs were explained in detail, and he always made sure that we understood the concepts behind the experiment before actually conducting it.</li> <li>Great at explaining. Probably the best tf I have had so far.</li> <li>Excellent at communicating and teaching Very enthusiastic Very accomodating</li> <li>Ben is an amazing Lab instructor. He is so enthusiastic, engaging, and exceptionally bright in his field. He makes the labs easy to understand and is very eager to help out whenever we need help.</li> <li>Very friendly and helpful. Engaged the class well and explained things really well.</li> <li>He is excellent in engaging the class and answering questions, as well as explaining concepts and labs.</li> <li>Great and nice</li> </ul>
<b>WEAKNESSES of the course and of the Instructor: -</b>
<ul style="list-style-type: none"> <li>He could explain why he gave the grades he give. Better feedback.</li> <li>I honestly have no weaknesses for Ben.</li> <li>Maybe too accomodating to students</li> <li>none</li> <li>n/a I felt that Ben did an excellent job all around.</li> </ul>
<b>General Comments: -</b>
<ul style="list-style-type: none"> <li>In general, I wish I could have spent more time on the telescope and that night lab was more intensive rather than using the distance formula and some algebra that could be done at home.</li> <li>liked this course, not so much the other problems on the problem sets</li> <li>Ben's lab was one of the highlights of my week, he always shows up with a smile on his face and prepared to execute the lab refraining to what we learned in lecture that week.</li> </ul>

**What were the most positive aspects of the course? -**

- Labs were very informative and fun.
- Lab was best part Class participation and hands on activities
- It was interesting
- I love the subject, and being able to carry out experiments (specifically in day lab) helped me better understand the concepts we were learning. Having exam reviews was incredibly helpful and having the TFs as resources was very useful.
- Discussion TFs were interesting and helpful.
- The labs were fun and rewarding, as well as challenging.

**What, if any, changes would you recommend for the next offering of the course? Be as specific as possible. -**

- see comments on night lab.
- No more other problems
- Spread out the due dates on the lab reports so they aren't all due one after the other with night lab
- Perhaps more clarity for which labs are formal writeups as opposed to regular lab reports. Also, I did not like how we turned in all of our formal labs without ever getting one back for feedback; I would have one at the very beginning so that we can get feedback on our lab reports before turning in more of them.

**What, if any, adjustments would you recommend to the instructor's teaching method or style? -**

- Ben, stay the exact same.
- none
- No more other problems
- see comments for Ben specifically.

**Comment on the feedback you received from the instructor of the course. Was it useful? -**

- Feedback was useful and direct. Both TFs were able to answer any questions I had and explain it successfully.
- Yes
- yes
- Yes.
- Most of the time it was very useful. I do wish at times it was more robust.

**Comment on the frequency and length of assignments, exams, and lab reports. -**

- Assignments had perfect length; not too short or too long. No exams but exam preparation was very helpful. Formal lab reports were due every few weeks, and they never felt like too much work.
- The homework was too long
- The lengths were perfect, but by the end the assignments were absurdly long, in my opinion, as compared to previous assignments.
- Workload was surprisingly heavy for a 200 level course
- Too much homework
- For day lab, we wrote two formal lab reports, which I felt was a satisfactory amount of work but having more would not have been overwhelming. For night lab, we had to write two lab reports and submit our packets, which would have been fine, except one of those reports had to be completed in two days because was confused. Additionally, the night labs that we were doing were not intense enough to justify a full write up, in my opinion.

**Comment on the selection and amount of reading. Which readings were the most and which were the least valuable? Why? -**

- Textbook readings were beneficial to lecture and general knowledge, but not specifically for lab.
- The book readings were very helpful
- Only reading was the textbooks, I didn't bother because the hw covers the same material
- Good amount of reading that offered superlative reading along with the lectures.
- The readings were typically those that were supplemental information to the lab, and therefore very useful.

**Comment on the TA/TF or lab instructor for the course. What did he/she do well? What could he/she improve? - TA/TF name:**

- TA/TF name: Ben Roulston
- TA/TF name: Ben
- TA/TF name: Ben
- TA/TF name: Ben
- TA/TF name: Ben
- TA/TF name:
- TA/TF name: Ben
- TA/TF name:
- Comments: See previous comments, but briefly: Strengths - answered questions, explained information well Weaknesses - disorganized, labs were not relevant, harsh grader.
- Comments: Awesome TF
- Comments: Very good at explaining concepts, could do with some more enthusiasm
- Comments: I loved ben and his teaching style. he was very efficient and engaged in the subject and his students.
- Comments: I should not have fallen asleep sometimes
- Comments: Great teacher.
- Comments: Very good at explaining concepts
- Comments: Everything was well. Could give more feedback when grading lab reports.

**What skills and understanding have you gained from this course? -**

- The most important skill is actually how to write a formal lab report.
- I have gained knowledge in astronomy, improved my ability to write a formal lab write up, and continued to stimulate interest in the subject matter.
- n/a
- I've gotten way more comfortable with the material
- From night lab, I learned how to calculate the sizes of bodies by analyzing pictures and how to calculate the transits of extrasolar planets.

# AS 202 (A4): Prin of Astro 1

Fall17 | Benjamin Roulston

6 | Students Enrolled

4 | Students Responded

66.67% | Response Rate

## Quantitative

	(1) Low	(2)	(3)	(4)	(5) High	N	DNA	SD	M
Relevance of assigned readings	0% (0)	0% (0)	0% (0)	25% (1)	75% (3)	4	0	0.43	4.75

	Easy	Moderately Easy	Neither Easy nor Difficult	Moderately Difficult	Difficult	N	DNA	SD	M
Difficulty of course	0% (0)	25% (1)	50% (2)	25% (1)	0% (0)	4	0	0.71	3

	Light	Moderately Light	Neither Light nor Heavy	Moderately Heavy	Heavy	N	DNA	SD	M
Workload in course	0% (0)	25% (1)	75% (3)	0% (0)	0% (0)	4	0	0.43	2.75

Course Evaluation	Poor	Fair	Good	Very Good	Excellent	N/A	N	DNA	SD	M
Overall rating of discussion instructor (if applicable)	0% (0)	0% (0)	0% (0)	66.67% (2)	33.33% (1)	0% (0)	3	1	0.47	4.33
Overall rating of lab instructor (if applicable)	0% (0)	0% (0)	0% (0)	66.67% (2)	33.33% (1)	0% (0)	3	1	0.47	4.33
Usefulness of assignments and papers	0% (0)	0% (0)	0% (0)	66.67% (2)	33.33% (1)	0% (0)	3	1	0.47	4.33
Overall course rating	0% (0)	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	1	0.47	4.67

Faculty Evaluation	Poor	Fair	Good	Very Good	Excellent	N	DNA	SD	M
Effectiveness in explaining concepts	0% (0)	0% (0)	0% (0)	33.33% (1)	66.67% (2)	3	0	0.47	4.67
Ability to stimulate interest in subject	0% (0)	0% (0)	0% (0)	33.33% (1)	66.67% (2)	3	0	0.47	4.67
Encouragement of class participation	0% (0)	0% (0)	0% (0)	0% (0)	100% (3)	3	0	0	5
Fairness in grading	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
Promptness in returning assignments	0% (0)	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	3	0	0.82	4
Quality of feedback to students	0% (0)	0% (0)	0% (0)	66.67% (2)	33.33% (1)	3	0	0.47	4.33
Availability outside of class	0% (0)	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	3	0	0.82	4
Overall rating of instructor	0% (0)	0% (0)	0% (0)	33.33% (1)	66.67% (2)	3	0	0.47	4.67

TF/TA Evaluation	Poor	Fair	Good	Very Good	Excellent	N	DNA	SD	M
Preparation for class	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
Command of the subject	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
Ability to convey facts and explain key concepts in a digestible manner	0% (0)	0% (0)	0% (0)	100% (3)	0% (0)	3	0	0	4
Enthusiasm for the subject and ability to stimulate student interest	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
Availability outside of class time	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
Quality of evaluation of work	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
Promptness of return or graded assignments and communication of standing in class	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67

<i>Other</i>	<b>Poor</b>	<b>Fair</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>Clarity and achievement of course objectives</b>	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
<b>Effectiveness of the use of class time</b>	0% (0)	0% (0)	66.67% (2)	33.33% (1)	0% (0)	3	0	0.47	3.33
<b>Value of course toward development of intellectual skills (critical analysis, written/oral communication, research)</b>	0% (0)	0% (0)	66.67% (2)	33.33% (1)	0% (0)	3	0	0.47	3.33
<b>Level of intellectual stimulation of the course</b>	0% (0)	0% (0)	66.67% (2)	33.33% (1)	0% (0)	3	0	0.47	3.33
<b>Value of lab/discussion as a supplement to lecture/reading</b>	0% (0)	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	3	0	0.82	4

<i>Professor</i>	<b>Poor</b>	<b>Fair</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>Professor's preparation for class</b>	0% (0)	0% (0)	33.33% (1)	0% (0)	66.67% (2)	3	0	0.94	4.33
<b>Professor's command of the subject</b>	0% (0)	0% (0)	0% (0)	33.33% (1)	66.67% (2)	3	0	0.47	4.67
<b>Professor's enthusiasm for subject of the course</b>	0% (0)	0% (0)	0% (0)	33.33% (1)	66.67% (2)	3	0	0.47	4.67

	<b>Nobody</b>	<b>Only majors/minors</b>	<b>Only majors/minors with great interest in subject</b>	<b>Students seeking distribution/divisional studies credit</b>	<b>Students seeking an interesting elective</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>To whom would you recommend this course?</b>	0% (0)	33.33% (1)	33.33% (1)	0% (0)	33.33% (1)	3	0	-	-

	<b>Less than 1 hr.</b>	<b>1 -3 hrs.</b>	<b>3 - 5 hrs.</b>	<b>5 - 10 hrs.</b>	<b>More than 10 hours</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>How much time per week outside class did you spend on the course?</b>	0% (0)	66.67% (2)	33.33% (1)	0% (0)	0% (0)	3	0	-	-

	<b>F</b>	<b>D</b>	<b>C</b>	<b>B</b>	<b>A</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>What grade do you expect in the course solely based on work completed so far?</b>	0% (0)	0% (0)	0% (0)	66.67% (2)	33.33% (1)	3	0	-	-

## Qualitative

<b>STRENGTHS of the course and of the Instructor: -</b>
<ul style="list-style-type: none"> <li>Creates interesting lab activities to apply learned concepts in; really supportive in explaining material and accessible</li> <li>Really good at teaching and explaining concepts for labs and problem sets, very enthusiastic, very accessible</li> <li>Thoroughly explained topics in class and review was very helpful for midterms</li> </ul>

<b>WEAKNESSES of the course and of the Instructor: -</b>
<ul style="list-style-type: none"> <li>Sometimes goes too fast with explaining problems</li> </ul>

<b>General Comments: -</b>
<ul style="list-style-type: none"> <li>Overall the course was organized and effective in allowing me to see the applications of the information we learned in lecture</li> <li>I loved astronomy labs this semester</li> </ul>

<b>What were the most positive aspects of the course? -</b>
<ul style="list-style-type: none"> <li>Actual observation time with a telescope, a great supplement to the lectures</li> <li>Getting to apply the concepts learned in lecture in engaging ways</li> <li>Very interesting subject, applied what we learned to real world applications</li> </ul>

<b>What, if any, changes would you recommend for the next offering of the course? Be as specific as possible. -</b>
<ul style="list-style-type: none"> <li>Some of the labs were just randomly finding data points online - I guess thats good for showing what the field is like but didnt feel that useful</li> <li>More labs to apply the knowledge learned in lecture to</li> <li>The second lab report not being due before we got the first one back</li> </ul>

<b>What, if any, adjustments would you recommend to the instructor's teaching method or style? -</b>
<ul style="list-style-type: none"> <li>none</li> </ul>

**Comment on the feedback you received from the instructor of the course. Was it useful? -**

- Very, he was super helpful when I didn't understand a concept
- Yes; clarified information from lecture that I was confused with

**Comment on the frequency and length of assignments, exams, and lab reports. -**

- I wish we did more labs— not necessarily with formal lab reports— because they were very interesting and provided a way to expand my knowledge of the course through applications
- Appropriate to the course
- Frequency of lab reports were good, enough leeway time in case a lot is going on in other classes at the moment

**Comment on the selection and amount of reading. Which readings were the most and which were the least valuable? Why? -**

- The pre-lab handouts were perfect length and depth
- No readings were really involved

**Comment on the TA/TF or lab instructor for the course. What did he/she do well? What could he/she improve? - TA/TF name:**

- TA/TF name:
- TA/TF name:
- TA/TF name: Ben
- Comments: showed interest and understanding of topics in class and helped a lot in review
- Comments:
- Comments:

**What skills and understanding have you gained from this course? -**

- How astronomers use mathematics and telescopes to expand their knowledge and apply what they know
- How to apply different skills within astronomy to real world astronomy uses

# AS 202 (A5): Prin of Astro 1

Fall17 | Benjamin Roulston

7		Students Enrolled
3		Students Responded
42.86%		Response Rate

## Quantitative

	(1) Low	(2)	(3)	(4)	(5) High	N	DNA	SD	M	
Relevance of assigned readings	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67	
	Easy	Moderately Easy	Neither Easy nor Difficult	Moderately Difficult	Difficult	N	DNA	SD	M	
Difficulty of course	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67	
	Light	Moderately Light	Neither Light nor Heavy	Moderately Heavy	Heavy	N	DNA	SD	M	
Workload in course	0% (0)	0% (0)	66.67% (2)	33.33% (1)	0% (0)	3	0	0.47	3.33	
Course Evaluation	Poor	Fair	Good	Very Good	Excellent	N/A	N	DNA	SD	M
Overall rating of discussion instructor (if applicable)	0% (0)	0% (0)	0% (0)	66.67% (2)	0% (0)	33.33% (1)	3	0	0	4
Overall rating of lab instructor (if applicable)	0% (0)	0% (0)	66.67% (2)	33.33% (1)	0% (0)	0% (0)	3	0	0.47	3.33
Usefulness of assignments and papers	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	0% (0)	3	0	0.47	3.67
Overall course rating	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	0% (0)	3	0	0.47	3.67
Faculty Evaluation	Poor	Fair	Good	Very Good	Excellent		N	DNA	SD	M
Effectiveness in explaining concepts	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)		3	0	0.47	3.67
Ability to stimulate interest in subject	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)		3	0	0.47	3.67
Encouragement of class participation	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	0% (0)		3	0	0.82	3
Fairness in grading	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	0% (0)		3	0	0.82	3
Promptness in returning assignments	0% (0)	66.67% (2)	0% (0)	33.33% (1)	0% (0)		3	0	0.94	2.67
Quality of feedback to students	0% (0)	66.67% (2)	0% (0)	33.33% (1)	0% (0)		3	0	0.94	2.67
Availability outside of class	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)		3	0	0.47	3.67
Overall rating of instructor	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	0% (0)		3	0	0.82	3
TF/TA Evaluation	Poor	Fair	Good	Very Good	Excellent		N	DNA	SD	M
Preparation for class	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)		3	0	0.47	3.67
Command of the subject	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)		3	0	0.47	3.67
Ability to convey facts and explain key concepts in a digestible manner	0% (0)	0% (0)	66.67% (2)	33.33% (1)	0% (0)		3	0	0.47	3.33
Enthusiasm for the subject and ability to stimulate student interest	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)		3	0	0.47	3.67
Availability outside of class time	0% (0)	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)		3	0	0.82	4
Quality of evaluation of work	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)		3	0	0.47	3.67
Promptness of return or graded assignments and communication of standing in class	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)		3	0	0.47	3.67

<i>Other</i>	<b>Poor</b>	<b>Fair</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>Clarity and achievement of course objectives</b>	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
<b>Effectiveness of the use of class time</b>	0% (0)	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	3	0	0.82	4
<b>Value of course toward development of intellectual skills (critical analysis, written/oral communication, research)</b>	0% (0)	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	3	0	0.82	4
<b>Level of intellectual stimulation of the course</b>	0% (0)	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	3	0	0.82	4
<b>Value of lab/discussion as a supplement to lecture/reading</b>	0% (0)	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	3	0	0.82	4
<i>Professor</i>	<b>Poor</b>	<b>Fair</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>Professor's preparation for class</b>	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
<b>Professor's command of the subject</b>	0% (0)	0% (0)	33.33% (1)	66.67% (2)	0% (0)	3	0	0.47	3.67
<b>Professor's enthusiasm for subject of the course</b>	0% (0)	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	3	0	0.82	4
	<b>Nobody</b>	<b>Only majors/minors</b>	<b>Only majors/minors with great interest in subject</b>	<b>Students seeking distribution/divisional studies credit</b>	<b>Students seeking an interesting elective</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>To whom would you recommend this course?</b>	0% (0)	100% (3)	0% (0)	0% (0)	0% (0)	3	0	-	-
	<b>Less than 1 hr.</b>	<b>1 -3 hrs.</b>	<b>3 - 5 hrs.</b>	<b>5 - 10 hrs.</b>	<b>More than 10 hours</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>How much time per week outside class did you spend on the course?</b>	0% (0)	33.33% (1)	33.33% (1)	33.33% (1)	0% (0)	3	0	-	-
	<b>F</b>	<b>D</b>	<b>C</b>	<b>B</b>	<b>A</b>	<b>N</b>	<b>DNA</b>	<b>SD</b>	<b>M</b>
<b>What grade do you expect in the course solely based on work completed so far?</b>	0% (0)	0% (0)	0% (0)	66.67% (2)	33.33% (1)	3	0	-	-

## Qualitative

### STRENGTHS of the course and of the Instructor: -

- He was very good at presenting things in a very engaging way.
- He is open to questions.
- Love Ben, does a great job with explaining each concept

### WEAKNESSES of the course and of the Instructor: -

- The course could have begun a bit earlier for the day lab. I also feel like a few extra experiments could have been done so as to help clear the concepts more.
- He did not give any comments on my lab reports I did very well but I would have preferred some comments on what I did well and what I did not do well on.

### General Comments: -

- I liked lab quite a bit.
- Overall, I'm satisfied with the lab.

### What were the most positive aspects of the course? -

- A lot of new things and concepts were learned.
- It is a good course for learning about astronomy

### What, if any, changes would you recommend for the next offering of the course? Be as specific as possible. -

- Better telescope availability we did not get to use the telescope very much
- Maybe focus on some experiments regarding the composition of planets.

### What, if any, adjustments would you recommend to the instructor's teaching method or style? -

- Maybe use some animations..i guess
- The instruction style was good

**Comment on the feedback you received from the instructor of the course. Was it useful? -**

- I think the feed back was okay I would have preferred more honestly
- Yes, it was insightful

**Comment on the frequency and length of assignments, exams, and lab reports. -**

- There is a short gap between the second midterm and final.
- There were too many problems on the later problem sets.

**Comment on the selection and amount of reading. Which readings were the most and which were the least valuable? Why? -**

- The readings in the textbook were not that helpful
- The readings on spectral lab were good. There was not any for solar lab. The Kepler lab was really helpful too.

**Comment on the TA/TF or lab instructor for the course. What did he/she do well? What could he/she improve? - TA/TF name:**

- TA/TF name: Ben Roulston
- TA/TF name:
- TA/TF name: Ben
- Comments: Keep it up
- Comments: I already answered these questions
- Comments: Did a good job overall. Might incorporate ppts or animations for visual learning.

**What skills and understanding have you gained from this course? -**

- Understand the concepts of practical use of theory learned in class