**Philosophy 102: Intro to Logic, Fall Quarter 2018**

**Syllabus**

**Course Description**
Logic is the study of methods for evaluating whether the premises of an argument adequately support its conclusion. Phil 102 focuses on deductive arguments, arguments in which the premises, if true, are supposed to guarantee the truth of the conclusion. Once you have mastered the material in this course, you will be better able to evaluate your own arguments and those of others.

Logic is a tool that can be applied to any intellectual endeavor in which people attempt to give reasons to support conclusions, but it is especially useful in the study of philosophy, where there is a particular emphasis on the development and evaluation of arguments. In addition, logic provides the basis for both mathematics and computer science, and so the study of logic is the study of the foundations of those fields. And, finally, logic is a sub-field of philosophy that is interesting in its own right.

Mastering the material in this course should help you in all of your intellectual endeavors, but should especially help you in reasoning well about ethics, politics, religion, and philosophy. In addition, mastering the material in this course will prepare you for the study of logic at more advanced levels. Finally, mastering the material in this course will help prepare you for entrance exams to graduate school.

Phil 102 covers elementary symbolic logic. It does not cover such topics as morality, the existence of God, skepticism, knowledge, persons, or freedom. Students interested in these topics should take Phil 112, 113, or 114, which are offered every quarter. Mastering the material in this course will help you in those courses. Phil 102 is a prerequisite for nearly every 300- and 400-level course in Philosophy, as well as Phil 202, Intermediate Logic, which is offered each year.

**How Phil 102 fits into the Western GUR Program**
“A liberal education is an education that exposes students to a wide breadth of courses, perspectives, and educational experiences designed to equip them with the essential skills and learning necessary to thrive and succeed throughout their lives. A liberal education prepares students to deal with complexity, diversity, and change, and entails study across many fields, as well as in-depth study in a specific area of interest. A liberal education helps students develop a strong sense of personal and social responsibility—important in all spheres of life” (Association of American Colleges and Universities). At Western, the GUR Program aims to facilitate a liberal education by requiring courses in six areas: (1) Communication, (2) Quantitative and Symbolic Reasoning, (3) Humanities, (4) Social Sciences, (5) Comparative, Gender and Multicultural Studies, and (6) Natural Sciences. Passing Phil 102 helps you meet the requirements in (2). Excelling in Phil 102 helps you with three learning goals or competencies identified by Western’s GUR Program:

- Analyze and interpret information from varied sources, including print and visual media
- Use quantitative and scientific reasoning to frame and solve problems
- Identify and analyze complex problems

**Instructor**
Daniel Howard-Snyder has been a member of the Philosophy Department at WWU since 2001. He earned his BA from SPU and his PhD from Syracuse. He is the father of twin teenagers, William and Peter, and husband of Frances, also a professor in the Philosophy Department at WWU. He has authored over 70 articles and critical reviews in epistemology, philosophy of religion, and moral psychology, and he has edited or co-edited The Evidential Argument from Evil (Indiana 1996), Faith, Freedom, and Rationality (Rowman & Littlefield 1996), Divine Hiddenness (Cambridge 2001), The Blackwell Companion to the Problem of Evil (Wiley-Blackwell 2013), and Approaches to Faith (Springer 2017). He has co-authored The Power of Logic (McGraw-Hill 2013, 5th edition). He teaches introductory and intermediate logic (Phil 102/202), epistemology (Phil 310/410), philosophy of religion (Phil 335), and the senior seminar (Phil 417). His current research focuses on intellectual humility, and on the nature, value, rationality, and virtue of faith, thought of as a psychological attitude or trait that can be directed toward secular and religious objects or contents.

**Office hours**
Tuesdays and Thursdays, 3:30-4:30pm, Bond Hall 312
Course email
phil102fall2018@gmail.com (operational on the first day of class)

Course websites
Philosophy 102 website; The Power of Logic website

Course text
Chapters 1, 2, 7, and 8 from The Power of Logic, 5th edition, co-authored by Frances Howard-Snyder, Daniel Howard-Snyder, and Ryan Wasserman, available at the University Bookstore. Alternatively, the entire book is for rent and for sale on Amazon.com. No other edition is permissible.

Course goals
The overall goal is to help students develop and refine their natural ability to reason. More specifically, by the end of the course, students should (1) understand the basic concepts of argument assessment, (2) be able to identify several “famous” forms of argument, and (3) construct counterexamples to invalid forms of argument; (4) be able to identify arguments in simple English and reconstruct them into well-crafted form for logical assessment; (5) master the technique of using truth-tables to evaluate validity and invalidity; and (6) learn and implement the inference and equivalence rules in a system of natural deduction, including conditional proof and reductio ad absurdum.

Course policies and procedures
Corresponding to each day that our class is scheduled to meet, there is a session listed in the Course Schedule, below. For each session, I state what you are advised to do before it, notably reading and exercise sets. Students who excel in Phil 102 faithfully do their exercise sets in a timely fashion. I recommend that, for each session, you allot two hours to do exercise sets and reading, on average. Sometimes you will need more time; sometimes less. We will do exercises in class; bring paper and pencil to record them.

The course grade is based on a 100 point scale. Exercise sets, 40 points. For details on esets and extra credit, see Exercise Sets Instructions below. Exams, 60 points. There are four exams: the first two are 10 points each, the second two are 20 points each. See Course Schedule and website for details. You cannot pass the course unless you pass at least two of the exams. (Passing is 6/10 or 12/20.)

Out-of-class help
There are magnificent resources for out-of-class help: (1) my office hours, (2) 102 Study Groups, (3) one-on-one tutoring with a major (ask me if you are interested), and (4) the Power of Logic website.

 Unscheduled exams
 Unscheduled exams are exams not taken at the scheduled time, e.g. makeup exams due to illness, emergency, or conflict with other exams. All unscheduled exams will be given at the Testing Center, no exceptions. To take an unscheduled exam, follow these instructions, not the instructions at the link mentioned below.

 (1) Ask me for permission, by email.
 (2) After you get my permission, go to the page here.
 (3) At this page, scroll down to “Instructor Checklist”, item 2, and click on the eform link there.
 (4) Fill in the form as much as you can, e.g. name, W#, course info, etc. DO NOT EMAIL IT TO THE TESTING CENTER.
 (5) Scroll to the bottom of the form and fill in the email address to which you will send the form: Daniel.Howard-Snyder@wwu.edu.

Academic honesty
In this course I will uphold all aspects of Western’s Academic Honesty Policy and Procedure, and Student Rights and Responsibilities Code. These are published in the Western catalog in Appendix C, University Academic Policies. If you have any questions about Western’s policy, you may see these sources:
• Plagiarism Policies & Guidelines: libguides.wwu.edu/plagiarism
The Student’s Guide to Avoiding Plagiarism: www.wwu.edu/soc/guides.shtml

Note: You are allowed to think through exercises together. However, you are not allowed to copy completed exercises from any source; nor are you allowed to give completed exercises to another student.

Reasonable accommodation

Reasonable accommodation for persons with documented disabilities should be established within the first week of class and arranged through Disability Resources for Students: 650-3083; drs@wwu.edu; http://www.wwu.edu/depts/drs/.

Student services

Western encourages students to seek assistance and support at the onset of an illness, difficulty, or crisis.

- In the case of a medical concern or question, please contact the Health Center: 650-3400 or wwu.edu/chw/student_health/
- In the case of an emotional or psychological concern or question, please contact the Counseling Center: 650-3400 or wwu.edu/chw/
- In the case of a health and safety concern, please contact the University Police: 650-3555 or ps.wwu.edu/default.aspx
- In the case of a family or personal crisis or emergency, please contact the Dean of Students: 650-3775 or wwu.edu/dos/contact_us.shtml

Flexibility statement

The syllabus and schedule for this course are subject to change. Changes, if any, will be announced in class. Students will be held responsible for all changes.

Course Schedule

Class cancelled

- Monday, October 8, Instructor at UConn conference, Educating for Intellectual Humility: Countering Arrogance and Servility. Use the time to get catch up on exercises and new reading.

Holidays

- Monday, November 12, Veterans Day
- Wednesday and Friday, November 21 and 23, Thanksgiving

Exercise set instructions (E-sets)

40% of your course grade (40 points) is based on E-sets. There are 53 E-sets offered. Do enough to get 40 points AND to secure your understanding of the material. If you complete a set, you get 1 point. To complete a set, you must get all of the exercises in the set right. If you partially complete a set, you get \( \frac{1}{2} \) point. To partially complete an exercise set, you must get at least half of the exercises in the set right. Here are five ways to significantly increase the likelihood of getting an E-set is right:

1. attend class and we do it together,
2. you do it at the Power of Logic Web Tutor here http://www.poweroflogic.com/cgi/menu.cgi,
3. you do it with the Phil 102 Study Group,
4. you do it with me at my office hours, or
5. you understand the material.

I will not grade your exercise sets in my office hours. You must handwrite each exercise. Write legibly or else you will lose points. For any E-set that you do beyond 40, it will count as extra credit, with this proviso: you cannot turn in an E-set for extra credit after the due date for it. No E-sets will be accepted late without an email requesting permission to turn them in late sent prior to the due date and time. Write E-set info legibly before each E-set, in exactly this way, or you will be penalized:

E-set 1. 1.1 Part A at least any 20.

On the back of the last page, write your name. Do not put your name anywhere else on the E-sets, or you will be penalized. If the grader cannot easily identify your W-number and name, and which E-set you’ve
turned in, you will get no credit for it. **When you turn in your E-sets, they must be stapled together at the upper left corner.** Unstapled E-sets will be penalized. Your instructor has no stapler.

### Exams and Esets Due Dates

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<td>Finals Week: Exam 4</td>
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### Sessions

#### Session 1: September 26
Study both the Syllabus/Schedule and *The Power of Logic* 1.1.

#### Session 2: September 28
Do E-sets 1-4.
- E-set 1. 1.1 Part A at least any 20
- E-set 2. 1.1 Part B at least any 20
- E-set 3. 1.1 Part C at least any 10
- E-set 4. 1.1 Part D at least any 10
Study 1.2.

#### Session 3: October 1
Do E-sets 5-8.
- E-set 5. 1.2 Part A at least any 20
- E-set 6. 1.2 Part B at least any 10
- E-set 7. 1.2 Part C at least any 10
- E-set 8. 1.2 Part D at least any 10
Study 1.3—pp. 33-43, to the sentence that begins "Let us return...," top of the page.

#### Session 4: October 3
Do E-sets 9-10.
- E-set 9. 1.3 Part A 1-10
- E-set 10. 1.3 Part A 11-19
Study 2.1.

#### Session 5: October 5
**Exam 1. Due: Esets 1-10.**

<<<No class Oct 8. Instructor at UConn.>>>

#### Session 6: October 10
Do E-set 11.
- E-set 11. 2.1 Part A at least any 20
Study 2.2.

#### Session 7: October 12
Do E-sets 12 and 13.
- E-set 12. 2.2 Part D 1-5
- E-set 13. 2.2 Part D 6-10
Study 7.1.

#### Session 8: October 15
- E-set 14. 7.1 Part C all
- E-set 15. 7.1 Part D all
**Due: E-sets 11-13, start of class.**

#### Session 9: October 17
Do E-set 16.
- E-set 16. 7.1 Part E all
Study 7.2.

#### Session 10: October 19
Do E-sets 17-18.
- E-set 17. 7.2 Part A all
- E-set 18. 7.2 Part C all
Study 7.3.

#### Session 11: October 22
Do E-sets 19-21.
- E-set 19. 7.3 Part A at least any 10
- E-set 20. 7.3 Part C 1-5
- E-set 21. 7.3 Part C 6-10
Study 7.4.
**Due: E-sets 14-21, start of class.**

#### Session 12: October 24
No new reading. Do E-sets 22-23.
- E-set 22. 7.4 Part A at least any 10
- E-set 23. 7.4 Part C at least any 10
Session 13: October 26
Do E-sets 24-25.
- E-set 24. 7.4 Part E 1-5
- E-set 25. 7.4 Part E 6-10
Study 7.5.

Session 14: October 29
- E-set 26. 7.5 Part A at least any 10
- E-set 27. 7.5 Part B all
- E-set 28. 7.5 Part C at least any 5
In class, we’ll either do exercises from 7.4 and 7.5, but not ones we have already done in class.

Session 15: October 31
Exam 2. Due: E-sets 22-28.

Session 16: November 2
Study 8.1

Session 17: November 5
No new reading. Do E-sets 29-30.
- E-set 29. 8.1 Part C at least any 15
- E-set 30. 8.1 Part D at least any 15

Session 18: November 7
Do E-sets 31-32.
- E-set 31. 8.1 Part E 1-5
- E-set 32. 8.1 Part E 6-10
Study 8.2.
Due: E-sets 29-32, start of class.

Session 19: November 9
Do E-sets 33-37.
- E-set 33. 8.2 Part C 1-15
- E-set 34. 8.2 Part C 16-25
- E-set 35. 8.2 Part D 1-10
- E-set 36. 8.2 Part D 11-20
- E-set 37. 8.2 Part D 21-25
Study 8.3.
<<<No class Nov 12. Veterans Day.>>>

Session 20: November 14
No new reading. Do E-sets 38-41.
- E-set 38. 8.3 Part C 1-10
- E-set 39. 8.3 Part C 21-25
- E-set 40. 8.3 Part D 1-10
- E-set 41. 8.3 Part D 11-20

Session 21: November 16
No new reading. Do E-sets 42-44.
- E-set 42. 8.3 Part D 21-25
- E-set 43. 8.3 Part E 1-5
- E-set 44. 8.3 Part E 6-10
Due: E-sets 33-39, start of class.

Session 22: November 19
Exam 3. Due: E-sets 40-44.
<<<No class Nov 21 & 23. Thanksgiving.>>>