

## COURSE INFORMATION

Fall 2010: Symbolic Logic  
PHIL012:001 [TR 2.30–3.45]: [117 Sackett]  
PHIL012:002 [TR 9.45–11.00]: [109 Bouke]

## CONTACT INFORMATION

David Agler (dwa132 AT psu.edu)  
Office hours: By appointment (see email)  
Office Location: 228 Sparks  
Website: [davidagler.com/teaching/logic](http://davidagler.com/teaching/logic)

### Texts

Agler, David W. *Symbolic Logic: Syntax, Semantics, and Proof*. Check course website for further details.  
Available at the [Student Book Store](#).

Aug. 24–Sept. 9	Modules 1 and 2 (Elements of Logic $\wedge$ Language, Syntax, and Semantics) <b>Due:</b> Logic Notebook 1, Exam 1 (Sept. 9)
Sept. 14–30	Modules 3 and 4 (Truth Tables $\wedge$ Truth Trees) <b>Due:</b> Logic Notebook 2, Exam 2 (Sept. 30)
Oct. 5–28	Module 5 (Propositional Logic Derivations) <b>Due:</b> Logic Notebook 3, Exam 3 (Oct. 28)
Nov. 2–11	Modules 6, 7, and 8 (Language of Predicate Logic, Predicate Trees $\wedge$ Semantics) <b>Due:</b> Logic Notebook 4, Exam 4 (Nov. 11)
Nov. 16–Dec. 9	Module 9 (Predicate Derivations) <b>Due:</b> Logic Notebook 5, Exam 5, and Extra Credit Project (TBA)

### I. Short Course Description

Symbolic logic is an introductory, three-credit-hour, course taught frequently in undergraduate philosophy programs. The course teaches (1) translating English propositions and arguments into a variety of different formal representations, e.g. first-order propositional, first-order predicate, existential graphs, modal logic, etc., (2) syntactic proof-procedures for logically valid arguments, (3) pseudo-mechanical tests for formal properties of propositions and arguments, e.g. validity, consistency, equivalence, invalidity, etc.

### II. Grade Evaluation, Scale, Breakdown

- 75% Five Exams (15% each)
  - 25% Five Examinations of Logic Notebook (5% each)
  - Extra Credit Assignments
- Grades will be rounded up from the *second* decimal point, e.g. 90.95 rounds up to 91.0 while 90.94 rounds down to 90.90. In the event that eLION does not allow for a particular grade (e.g. D+), you will simply be given the letter grade (e.g. if you have a D+ then you will receive a D, and if you have a C–, you will receive a C).

A: 91–100%;	C+: 79.0–79.9	F: 0–59.9
A–: 90.0–90.9	C: 71.0–78.9	<a href="#">INCOMPLETE</a>
B+: 89.0–89.9	C–: 70–70.9	<a href="#">DROP</a>
B: 81.0–88.9	D+: 69.0–69.9	
B–: 80–80.9	D: 60.0–68.9	

- **Explanation of Tests, Notebook Examinations**
- **Tests (75%)**
  - There are five exams.

- **Examinations of Notebooks (25%)**
  - While you are not required to specifically keep a notebook, you are required to keep an organized set of your work. This will be collected at specified times in the semester and reviewed mostly for *completeness*. In order to receive full points, it is not necessary that you (1) did all the exercises correctly, nor (2) that you did 100% of the exercises. A helpful guideline concerning *organization and assessment* of these notebooks will be distributed in class. The specific problem set will also be announced at the beginning of each class.
- **Extra Credit Assignments**
  - There are three opportunities to receive extra credit for this course (contact the instructor for more details).
    1. Win the Logic Cover Contest
    2. Win Proof Competition (details TBA)
    3. Typos (details TBA)

III. **Late Work:** If you are planning on taking a **Test/Notebook** late, you will need to clear this with the instructor *before* the day and time of the test. If the instructor is not informed that you will be taking the test late, a grade reduction of one letter grade is incurred for every day the test is late. So if the due date is Tuesday at 3p.m. and you email me on Tuesday at 3.01p.m., you will lose a letter grade. You will not lose an additional letter grade until 3.01p.m. the next day (i.e. Wednesday).

IV. **Logic Tutors (Penn State Learning)**

Through the course of the semester, you may decide you need additional tutoring. There are two ways to receive additional assistance in this course. The first is to request a private tutor through [Penn State Learning](#). At their website, go to the “Resources” page, and click “Engage a Private Tutor” to request a tutor for this course. Currently, Amanda Wise (a former student of mine who did extremely well in a Fall 2009 Logic course) is the tutor. She also offers private tutoring for a fee (see below).

Secondly, below is a list of tutors who offer private tutoring. Contact them about their hours and the cost of their assistance. Each of them is competent in all of the material (and more) covered in this course.

Amanda Wise: ajw243 at psu.edu (Former Student, 2009)  
 Rebekah Crandall: rec5070 at psu.edu (Former Student, 2010)  
 Chris Connell: cqc5047 at psu.edu (Former Student, 2010)  
 Matt Kissenwether: mjk5168 at psu.edu (Former Student, 2010)  
 Caitlin Hutton: cah5428 at psu.edu (Former Student, 2010)  
 Megan Barnett: meb5337 at psu.edu (Former Student, 2009)

V. **Additional Administrative Information**

1. *Academic Misconduct*

The general principles and policy relating to cheating and plagiarism, which are enforced in this class, can be found in the Penn State policy on academic misconduct. *Academic Integrity*: Academic dishonesty encompasses a wide range of activities, whether intentional or unintentional, that includes, but is not limited to: all forms of fraud, plagiarism, and any failure to cite explicitly all materials and sources used in one’s work. Sanctions for these activities include, but are not limited to, failure in a course, removal from the degree program, failure in a course with an explanation in the permanent transcript of the cause for failure, suspension, and expulsion. If you are unclear about whether you or someone you know is engaging in academic misconduct, read the following: [University Statement on Academic Integrity](#)

1.1 *Other Resources on Academic Misconduct*

[PSU Academic Integrity](#)  
[PSU ITS](#):

[Plagiarism Tutor](#)  
[Turnitin](#)  
[PSU Teaching & Learning with Technology](#)

2. *Disability*

If you have a documented disability and wish to receive academic accommodations, please contact the campus disability liaison as soon as possible: (name, office, telephone, email). For additional information, check the university web site for [Disability Services](#).

3. *Resources to Help with Research, Writing, Documentation, and Citation*

[Information Literacy Tutorial](#)  
[University Learning Center](#)  
[Writing Center](#)

4. *Use of Angel and email communication*

Please check the webpage on the [ANGEL](#) website regularly. An online version of the syllabus is available there, and you will be notified of any cancellation of a course meeting there. If you need to contact me, send a well-constructed email to [dwa132@psu.edu](mailto:dwa132@psu.edu) with an appropriate subject line (e.g. P120 Question) and with an appropriate address (e.g. "Dear David"). Failure to do either, or emailing me with multiple links attached ("check this youtube link") will result in your instructor deleting your email. Students are responsible for activity on their computer accounts so only send emails pertinent to the course. Also, please do not send correspondence from cellular telephones (e.g. Blackberries, etc.).

5. *Drop procedures and Incompletes*

Students who simply stop attending class, for whatever reason, without officially withdrawing from the course, will receive the grade of F. If you expect a refund, be aware that the date the withdrawal form is processed by Penn State registrar's office determines the amount of refund.

Consult the Register site for [drop procedures](#)

Consult the Handbook for taking an [Incomplete \(D/F\)](#)

6. *Student Guidance*

If you are in need of psychological counseling, please do not hesitate to contact Penn State's [Counseling & Psychological Services](#) (phone: 814-863-0395). For any problem related to your studies, university policies and procedures, do not hesitate to seek the help of the [Student Affairs Services](#), your Academic Advisor, or arrange a meeting with your instructor who will help you obtain assistance through one of the above, or another, agency.

7. *Classroom Environment*

A number of factors figure into creating a healthy classroom environment. In order to facilitate such an environment, I ask you to obey the following: (1) the use of cell phones in any capacity is prohibited (please turn ringers/buzzers off, no text-messaging during class), (2) please do not begin to 'pack up' your belongings before your instructor has *explicitly* dismissed you, (3) please come to class rested, sleeping in class is strictly prohibited, (4) please do not do other work in class. If you are incapable of performing (1)–(4) or are disruptive in class, you will kindly be asked to leave the classroom.

8. *Challenge Examination*

For some courses, students may request a [challenge examination](#) as a substitute for completing the usual requirements of a course. If the examination is successfully completed the credits received are described as "credits by examination" ([policy 42-50](#)).

**Elements of this syllabus are subject to modification due to unforeseen variables, catastrophic events, or other factors. The instructor will announce any of these changes in class.**

First Upload: 7/1/2010  
Second Upload: 7/9/2010