

Syllabus

Instructor: Dr. Susanna Epp

E-mail: sepp followed by @ depaul.edu

(I have been inundated with junk mail, which I often delete after only a cursory glance. **To ensure that your message is not overlooked, please put [MAT699] or [TCH413] at the start of the subject heading** for all e-mail messages to me about the course.)

Office Hours: Tu 4:00-4:50 and 8:15-9:00, SAC 520 and by appointment. (Office Phone: 773-325-4880)

Time and Location: Tu 5:00 – 8:15 (January 10 – March 13), Levan 302

D2L Course homepage: <https://d2l.depaul.edu>

Textbooks and other materials:

- *Language, Proof and Logic*, 2nd edition (book and CD), by Dave Barker-Plummer, Jon Barwise, and Jon Etchemendy, ISBN-10: 1575866323, ISBN-13: 978-1575866321
The online grading and tutorial feature of the associated CD can only be used by the original purchaser, and so you will need to obtain an unused copy.
- Copies of articles and other materials will be distributed in class or made available through the course website.
- If you have a laptop, it would be convenient to bring it to class.

Summary of Course: This course will focus on the role of logic in mathematical reasoning and its relationship with the secondary mathematics curriculum. There are two main learning goals: (1) Understanding basic notions of formal logic; and (2) Understanding the various ways logic is used in the secondary mathematics curriculum, especially in the analysis of mathematical situations and in mathematical explanation and justification. For the first goal, the book *Language, Proof, and Logic* and its associated computer software will be used. For the second goal, the following topics will be explored: the role and use in secondary mathematics of variables, expressions, equations, quantifiers, definition, proof, and truth (of a sentence in a mathematical structure).

Homework and Grading Policy:

Eighty percent of your final grade will be based on weekly homework assignments (computer exercises from Tarski's World, short essay responses to readings, problem solutions, and group assignments) and twenty percent will depend on a final paper (due on March 13).

DePaul University's Academic Integrity Policy: Students must abstain from any violations of academic integrity and set examples for each other by assuming full responsibility for their academic and personal development, including informing themselves about and following the university's academic policy. Violations of academic integrity include but are not limited to the following categories: cheating; plagiarism; fabrication; falsification or sabotage of research data; destruction or misuse of the university's academic resources; alteration or falsification of academic records; and academic misconduct. The Academic Integrity Policy of the University is

at <http://academicintegrity.depaul.edu/AcademicIntegrityPolicy.pdf>. General academic integrity information is at <http://academicintegrity.depaul.edu/Resources/index.html>.

Information for Students with Disabilities: Students who feel they may need an accommodation based on the impact of a disability should contact me privately to discuss their specific needs. All discussions will remain confidential. To ensure that you receive the most appropriate accommodation based on your needs, contact me as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the PLuS Program <http://studentaffairs.depaul.edu/plus> (for LD, AD/HD) or The Office for Students with Disabilities <http://studentaffairs.depaul.edu/studentwithdisabilities> (for all other disabilities).

Important Dates:

Monday, January 9: Last day to add a class in order to receive credit

Monday, January 16: Last day to drop classes with no penalty and last day to select pass/fail option

Tuesday, January 17: Grades of “W” assigned for classes dropped on or after this day

Monday, January 23: Last day to select auditor status

Monday, February 20: Last day to withdraw from class