Class Time: TBD (Meetings to occur at least twice weekly throughout the semester)
Classroom: T.E. Ferguson Liberal Arts Building 410B (F 410B)

Dr. Owen M. Smith
Professor of Philosophy and Classical Studies
OFFICE: Vera Dugas Liberal Arts Building North 410B (LAN 410B)
OFFICE HOURS:
  o Mondays 4:00 - 5:00 p.m. (OFFICE) and 7:00 - 8:00 p.m. (ONLINE via Zoom)
  o Tuesdays 3:30 - 5:00 p.m. (OFFICE)
  o Wednesdays 4:00 - 5:00 p.m. (OFFICE)
  o Thursdays 3:30 - 5:00 p.m. (OFFICE)
and by appointment
E-MAIL ADDRESS: omsmith@sfasu.edu
OFFICE PHONE: (936) 468-2367
ZOOM Invitation to online office hours:
  https://sfasu.zoom.us/j/95701782976?
pwd=UXc5VWN1OUdxVWJiZUdSaktwRVJNUT09
  Meeting ID: 957 0178 2976
  Passcode: 078752

Prerequisites for Course: None

Course Description:
An in-depth study of the role of logic in critical thinking with a focus on the principles of argument analysis and evaluation. Exploration of inductive reasoning and deductive reasoning, including various systems of symbolic logic such as categorical (syllogistic) logic and sentential (propositional) logic.

Required Text:
Course Requirements:
• Examination 1: Principles of Argumentation – 20% of final grade
• Examination 2: Syllogistic Logic – 20% of final grade
• Examination 3: Sentential Logic – 20% of final grade
• Examination 4: Inductive Logic; Fallacious Reasoning; Comprehensive Questions – 30% of final grade
• Homework – 10% of final grade

Student Learning Outcomes:
1. Mastery of the Principles of Argumentation:
   a. Definition and recognition of propositions
   b. Definition and recognition of arguments
   c. Distinction between deductive and inductive arguments
   d. Identification and explanation of the Canons of Rational Discourse
   e. Definitions of validity and soundness for deductive arguments
   f. Definitions strength and weakness for inductive arguments
2. Formulation of valid deductive arguments: Syllogistic Logic
   a. Recognition and classification of categorical propositions
   b. Symbolic representation of categorical propositions
   c. Recognition and classification of syllogisms
   d. Determination of syllogistic validity
3. Formulation of valid deductive arguments: Sentential Logic
   a. Definitions of simple (atomic) proposition, compound proposition, and logical operator
   b. Definition and recognition of five sentence operators
   c. Determination of the truth value of compound propositions by truth table analysis
   d. Proof of the validity of arguments/argument forms
4. Formulation of strong inductive arguments
   a. Recognition, formalization, and evaluation of inductive generalizations (inductions by enumeration)
   b. Recognition, formalization, and evaluation of inductive analogies
5. Recognition and Explanation of Fallacious Reasoning
   a. Identification and refutation of informal fallacies
   b. Identification of misleading rhetorical devices

Course Contact Hours and Study Hours:
The course typically meets twice each week (Tuesday/Thursday) in 75-minute segments for 15 weeks. Students have regular reading assignments, homework assignments, and a set of examinations (both in person and online). These activities average a minimum of 6 hours of work per week to prepare outside of classroom hours.
Program Learning Outcomes:
The student should be able to follow the rules of logic to analyze and evaluate arguments presented in both symbolic and real-world (i.e., English language) form.

Course Policies:
1. Class Attendance and Conduct
   a. Since in-class exercises and discussions of course material are an essential part of the course work, each student is required to attend every class session. Students are required to be punctual in their attendance and to remain in class until the end of each class session, with the exception of breaks announced by the instructor.
   b. Classroom behavior that is disrespectful to the instructor or to other students is not acceptable during class. Student behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (cf. Student Conduct Code, Policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the an early-alert student assistance program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.
   c. Attendance will be taken each class session either verbally or in the form of an attendance sheet to be signed by each student. Each student is responsible for making sure that his/her attendance has been recorded for each class session. Attendance at a class session may be recorded only during that session.
   d. Students are not permitted to use cell phones or other electronic devices such as laptop computers during class or to have cellphones on their desks or laps during class sessions; during all class sessions, including examinations, these devices must be turned off and placed out of sight. The instructor may also require students to remove their personal possessions, such as backpacks, from their desktops during class. A penalty of one (1) partial absence will be assessed for each violation of this policy.
   e. Excessive absences will result in a failing course grade. Students who arrive late to class or leave class early are assigned partial absences; for every two (2) partial absences, one (1) full absence will be assessed against a student’s attendance record. A student who accumulates more than six (6) absences during the semester are subject to receiving a variety of penalties up to and including a final course grade of “F.” Students are responsible for keeping track of their own attendance record and recognizing when their final course grade is endangered by excessive absences. Students who miss class sessions owing to late registration will not be charged with these absences provided that they meet with the instructor in the first three weeks of the semester to discuss the syllabus and review missed material.
   f. Students are responsible for all material addressed and all exercises performed in class regardless of their attendance record. Students who miss class are encouraged to obtain notes from a classmate and review these notes with the instructor.
2. Office Hours and Contact Information  
a. The instructor is available to meet with students in his office during his regularly scheduled office hours. Students who wish to meet with the instructor in his office during regularly scheduled office hours do not need to make an appointment; the instructor will meet with students on a first come, first served basis.  
b. Students who wish to meet with the instructor in his office outside of regularly scheduled office hours must make an appointment with the instructor ahead of time.  
c. Students can contact the instructor outside of regularly scheduled office hours by email at the instructor's university email address (omsmith@sfasu.edu), by telephone at the instructor's office phone number (936-468-2367), or by using the email function or the instant message function on the university's Desire2Learn (D2L) website.  
d. Students are encouraged to ask questions of general student interest by making a post to the Open Question Forum discussion available on Brightspace/D2L site for the course.

3. Homework  
a. Logic is a practical art and can only be mastered through application of the principles addressed during class. Each student is therefore expected to have completed all homework assignments by the date specified by the instructor. Absence from class does not constitute grounds for failing to complete a homework assignment. A student who misses a class should obtain information about homework by contacting the instructor and should attempt to complete the homework assignment by the appropriate due date.  
b. The instructor will verify the completion of each homework assignment either by collection of the assignment or by visual inspection. Each student is responsible for making sure that the completion of his/her homework has been verified by the instructor. Verification of homework assignments may be recorded only at the beginning of a class session.  
c. Failure to complete homework assignments by the assigned due date will lower a student’s final course grade.  
d. The practice of having students provide solutions to homework exercises during class permits more material to be covered in a given amount of time. Each student will therefore be expected to provide solutions to the assigned exercises when requested during class. Students will in no way be penalized for presenting incorrect solutions to homework exercises during class. While student may occasionally request to be excused from providing a solution to an assigned exercise, continued refusal to place solutions to assigned problems on the board will, however, will result in the assessment of a penalty against a student’s homework grade, thereby lowering the student’s final course grade.

4. Examinations  
a. Following each major section of the course, students will be required to take an online examination emphasizing complex, higher-order thinking skills to demonstrate understanding of the material contained in the course lectures and assigned readings. Owing to differences in the length of each unit, the precise point value of the examinations will vary.
b. The examinations will be available through the Course Tools menu on the D2L website for the course. Students may attempt each examination a maximum of two (2) times. A student’s grade on this quiz will be the higher of the two scores earned on these attempts.

c. At his discretion, the instructor may grant an extension to a student who cannot take a unit quiz during the designated period owing to technical (internet) limitations, serious illness or another similarly compelling reason. Any student who wishes an extension on a unit quiz must submit a written request to the instructor and provide some form of credible written documentation for the reason cited by the student for missing the deadline for the quiz.

5. Academic Integrity

a. The Code of Student Conduct and Academic Integrity (https://www.sfasu.edu/docs/policies/10.4.pdf) outlines the prohibited conduct by any student enrolled in a course at SFA. It is the responsibility of all members of all faculty, staff, and students to adhere to and uphold this policy.

b. Articles IV, VI, and VII of the new Code of Student Conduct and Academic Integrity outline the violations and procedures concerning academic conduct, including cheating, plagiarism, collusion, and misrepresentation.

c. Cheating includes, but is not limited to: (1) Copying from the test paper (or other assignment) of another student, (2) Possession and/or use during a test of materials that are not authorized by the person giving the test, (3) Using, obtaining, or attempting to obtain by any means the whole or any part of a non-administered test, test key, homework solution, or computer program, or using a test that has been administered in prior classes or semesters without permission of the Faculty member, (4) Substituting for another person, or permitting another person to substitute for one’s self, to take a test, (5) Falsifying research data, laboratory reports, and/or other records or academic work offered for credit, (6) Using any sort of unauthorized resources or technology in completion of educational activities.

d. Plagiarism is the appropriation of material that is attributable in whole or in part to another source or the use of one’s own previous work in another context without citing that it was used previously, without any indication of the original source, including words, ideas, illustrations, structure, computer code, and other expression or media, and presenting that material as one’s own academic work being offered for credit or in conjunction with a program course or degree requirements.

e. Collusion is the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on academic dishonesty, including disclosing and/or distributing the contents of an exam.

f. Misrepresentation is providing false grades or résumés; providing false or misleading information in an effort to receive a postponement or an extension on a test, quiz, or other assignment for the purpose of obtaining an academic or financial benefit for oneself or another individual or to injure another student academically or financially.
6. **Accommodations:** To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to <http://www.sfasu.edu/disabilityservices/>.

7. **Grades**
   a. The course grade for each student will be determined by the instructor. In case of a borderline grade, the student will receive the lower grade. The standard scale used in grading will be as follows: 90.0 and above - A; 80.0 to 89.9 - B; 70.0 to 79.9 - C; 60.0 to 69.9 - D; 59.9 and below - F.
   b. As course requirements are graded, they will be published to the D2L site for the course; if a grade has not been published on the D2L site for the course, the grade is not yet available. The instructor does not generally respond to requests to specify the date by which a particular course requirement will be graded, to provide unpublished grades to students, or compute current course averages for students.
   c. In accordance with university policy, students will be assigned a midterm grade in this course. This grade will be based upon all course requirements completed prior to midterm. A student’s midterm grade is no guarantee of the student’s final course grade. A student with a passing midterm grade may still fail the course; a student with a failing midterm grade may still pass the course.
   d. Withheld Grades: Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course to compute the grade point average.

**Tentative Course Schedule:**
- **Week 1 (January 18):** Orientation
- **Week 2 (January 23 and January 25):** Logic as a philosophical discipline; critical thinking
- **Week 3 (January 30 and February 01):** The Canons of Rational Discourse
- **Week 4 (February 06 and February 08):** Foundations of Argumentation – sentences, propositions, and arguments
- **Week 5 (February 13 and February 15):** Arguments and explanations; identification of arguments; types of arguments – deductive arguments vs. inductive arguments
• Week 6 (February 20 and February 22): Requirements of a good deductive argument: validity and soundness; requirements of a good inductive argument: strength and cogency
• Week 7 (February 27 and February 29): Syllogistic Logic – Standard Form Categorical Propositions; general schema of Standard Form Categorical Propositions
• Week 8 (March 05 and March 07): Representation of Categorical Propositions by Venn Diagrams; representation of Categorical Propositions by Boolean Equations
• Week 9 (March 12 and March 14): NO CLASS – SPRING BREAK
• Week 10 (March 19 and March 21): Determination of Syllogistic Validity by Venn Diagram Method; determination of Syllogistic Validity by Antilogism Test; Determination of Syllogistic Validity by Syllogistic Rules
• Week 11 (March 26 and March 28): Sentential (Propositional Logic) – Atomic and Compound Propositions; Sentence Operators – Negation, Conjunction, and Disjunction and NO CLASS EASTER HOLIDAY
• Week 12 (April 02 and April 04): Sentence Operators – Material Implication and Material Equivalence; Truth trees and Truth Table analysis of propositions; determination of Sentential Argument validity by the Truth Table Method
• Week 13 (April 09 and April 11): Inductive Argumentation - Review; formalization and evaluation of Inductive Generalizations
• Week 14 (April 16 and April 18): Formalization of and evaluation of Inductive Analogies
• Week 15 (April 23 and April 25): Informal Fallacies – Fallacies of Relevance and Defective Induction; Informal Fallacies – Fallacies of Presumption and Ambiguity
• Week 16 (April 30 and May 02): Final Review

Student Wellness and Well-Being
1. SFASU values students’ overall well-being, mental health and the role it plays in academic and overall student success. Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, emotional well-being, alcohol and other drugs, identities, finances, etc. If you are experiencing concerns, seek help. SFA provides a variety of resources to support students' mental health and wellness. Many of these resources are free, and all of them are confidential.

2. On-campus Resources:
   a. The Dean of Students office
      Rusk Building, 3rd floor lobby
      (936) 468-7249
      www.sfasu.edu/deanofstudents
dos@sfasu.edu
   b. SFASU Human Services Counseling Clinic
      Human Services Building 202
      (936) 468-1041
      www.sfasu.edu/humanservices/clinics-labs/counseling-clinic
c. Health and Wellness Hub ("The Hub")
Corner of East College and Raguet St.
936-468-4008
www.sfasu.edu/thehub
thehub@sfasu.edu
To support the health and well-being of every Lumberjack, the Health and Wellness Hub offers comprehensive services that treat the whole person -- mind, body and spirit. Services include:
• Health Services
• Counseling Services
• Student Outreach and Support
• Food Pantry
• Wellness Coaching
• Alcohol and Other Drug Education

3. Crisis Resources:
a. Burke 24-hour Crisis Line: 1 (800) 392-8343
b. National Suicide Crisis Prevention: 9-8-8
c. Suicide Prevention Lifeline: 1 (800) 273-TALK (8255)
d. Crisis Text Line: Text HELLO to 741-741