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**General Outline**

An introductory survey of the main alternatives to classical logic, i.e., theories that deviate from the classical account of logical validity (as studied e.g. in the prerequisite course V3411/G4415, *Introduction to Symbolic Logic*). The focus is on theories that depart from classical logic with regard to the principle of *bivalence* (every statement is either true or false) or the principle of *non-contradiction* (no statement is both true and false), or both—including sentential and predicate versions of many-valued logics, free logics, paraconsistent logics, and possibly more. Details of the semantics and proof-theories of these logics are considered along with the relevant philosophical motivations.

**Prerequisites**

One term of formal logic (V3411/G4415, *Symbolic Logic*, or G4801, *Mathematical Logic I*).

**Requirements**

The final grade is determined as follows: (a) class participation (10%); (b) two take home assignments (25% each); (c) final examination/paper (40%).

**Readings**

There is no textbook. Instead, lecture notes will be made available as the course progresses and posted in PDF form on *CourseWorks* (section *Class Files*, folder *Shared Files*). All readings, primary and supplemental, will also be made available through *CourseWorks*.

**Schedule (tentative)**

- 09/12 Introduction: Classical vs. Non-Classical Logics
- 09/19 The Law of Bivalence
- 09/26 Many-Valued Logics, I: Fundamentals
- 10/03 Many-Valued Logics, II: Developments
- 10/10 Many-Valued Logics, III: Applications
- 10/17 Supervaluationism
- 10/24 Free Logics, I: Fundamentals
- 10/31 Free Logics, II: Developments
- 11/17 *Academic Holiday*
- 11/14 The Law of Non-Contradiction
- 11/21 Paraconsistent Logics, I: Adjunctive Theories
- 11/28 Paraconsistent Logics, II: Non-Adjunctive Theories
- 12/05 Constructivism and Intuitionistic Logic
- 12/12 Other Topics and Concluding Remarks