



**MAT 5907**

## **Independent Study**

Section: U02

In-Person meetings arranged

Spring Term 2026

## **Course Meeting Information**

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Schedule of Classes:

Fr 2:00 pm- 3:30 pm DM 442A

## **Professor Information**

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Mirroslav Yotov

**Roles:** Primary Instructor

**Email:** [yotovm@fiu.edu](mailto:yotovm@fiu.edu)

**Phone:** x3170

**Office Hours:** TuTh 10:30 - 12:00 Noon (Zoom)

**Office Location:** DM 413A

**Website:** [faculty.fiu.edu/~yotovm](http://faculty.fiu.edu/~yotovm)

**Department or Academic Unit:** Mathematics and Statistics

## Course Prerequisites

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Course prerequisites, if any, are listed below.

## Course Description

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This is an in-person class meeting once a week (Friday) for 150 minutes.

We will discuss and study Complex Algebraic Geometry and the Theory of Lie Groups and Algebras.

## Textbook and Course Materials

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### **Algebraic Geometry over the Complex Numbers**

**Required/Recommended:** Recommended

**Authors:** Donu Arapura

**Publisher:** Springer

**Publication Date:** 2012

**Copyright Date:** 2012 by Springer Science+Business Media, LLC

**ISBN 10:** N/A

**ISBN 13:** 978-1-4614-1809-2

**Chapters/Pages:** Chapters 4-10

## Student Learning Outcomes/Objectives

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- become proficient in using Differential-Geometric, Algebraic Topology and Complex-Geometric methods in studying algebraic varieties

## Expectations of the Course

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A lot of reading. A lot of discussions. Several interesting (non-trivial) examples. This needs serious work.

## **Assignments & Assessments**

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There will be regular assignments (taken from the Exercises sections of the book). Assessment will be based also on the involvement of the students in the in-class discussions.

## **Grading**

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This will be based on the assignments and on the face-to-face discussions in class.

## **Schedule of Topics**

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We will follow the rhythm of the work in class.

## **Policies & Resources**

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Before starting this course, please review the Policies & Resources Page in Canvas, which includes comprehensive information on various University and Course Level Policies such as:

- University Policies
- Accessibility and Accommodations
- Online Etiquette
- Technical Requirements and Skills
- Computer & Digital Literacy Skills
- Course Technology Accessibility Statements and Privacy Policies
- Academic Integrity
- Copyright Statement

- Nondiscrimination Statement
- Panthers Care & Counseling and Psychological Services (CAPS)
- Fair Use Policy

## Nondiscrimination Statement

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The **Office of Civil Rights Compliance and Accessibility (CRCA)** is responsible for ensuring that FIU maintains a workplace and learning environment free from discrimination, where current and prospective faculty, staff, and students are treated equitably. If any student, employee, or applicant has a sincere and reasonable belief that they have been discriminated against or harassed based on age, color, disability, marital status, ethnic or national origin, race, religion, retaliation, sex, or any other protected category, they can report their concerns to the CRCA team through [report.fiu.edu](https://report.fiu.edu).