

【Title】

Applied Mathematics
(Introduction to Complex Variables and Numerical Integration)

【Credit】 2

【Name of Prof. (Contact)】※Email address

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【Goals of the lecture】

To provide the rudiment of complex analysis with an introduction to numerical methods for ordinary differential equations.

【 Method of Evaluation】

Periodic assignments

【Required Textbook】

None: I will provide various PDFs or books

Content:

Review of Groups, Fields, etc...

Complex Numbers: definition and goals

Differentiation

Integration

Residue theory

Additional bonbons:

Runge-Kutta and predictor corrector methods