

物理・数理系プログラム

Physics and Mathematics Graduate Program

(博士前期課程)

前期専門基礎科目

Basic Specialized Courses

授業科目	Course	単位/Credits
先端物理学基礎1	Fundamentals of Advanced Physics 1	2
先端物理学基礎2	Fundamentals of Advanced Physics 2	2
先端物理学基礎3	Fundamentals of Advanced Physics 3	2
数理科学展望1	Perspectives in Mathematical Science 1	2
数理科学展望2	Perspectives in Mathematical Science 2	2
数理科学展望3	Perspectives in Mathematical Science 3	2
数理科学展望4	Perspectives in Mathematical Science 4	2
アドバンス物性物理	Advanced Condensed Matter Physics	2
アドバンス生物物理学	Advanced Biophysics	2

In the syllabus, please refer to

Graduate School of Mathematics MC
Category A-1
Category A-2
Category A-3

Graduate School of Science MC
MC Basic Specialized Course
MC Specialized Course

前期専門科目

Specialized Courses

授業科目	Course	単位/Credits
素粒子	Particle Physics	2
高エネルギー物理学	High Energy Physics	2
宇宙物理学A	Astrophysics A	2
宇宙物理学B	Astrophysics A	2
原子核・ハドロン	Nuclear and Hadron Physics	2
プラズマ物理	Advanced Plasma Physics	2
コア物性物理学	Core Solid State Physics	2
コア生物物理学	Core Biophysics	2
物性物理学特論1	Advanced Solid State Physics 1	2
物性物理学特論2	Advanced Solid State Physics 2	2
物性物理学特論3	Advanced Solid State Physics 3	2
プラズマ宇宙物理学	Plasma Astrophysics	2
磁気圏物理学	Magnetospheric Physics	2
電離圏物理学	Ionospheric Physics	2
惑星間空間物理学	Physics and the Solar Wind	2
中層大気物理化学	Physics and Chemistry of Middle Atmosphere	2
超高層大気物理学	Upper Atmospheric Physics	2
地球大気計測論	Measurements in Middle Atmosphere	2
宇宙地球電波科学	Space-Earth Radio Science	2
宇宙線観測学特論	Experimental Cosmic-Ray Physics Research	2
宇宙線物理学	Cosmic-Ray Physics	2
宇宙素粒子物理学	Astroparticle physics	2
宇宙線考古学	Paleo Cosmic Ray Physics	2
太陽物理学	Solar Physics	2
大気化学反応論	Atmospheric Chemistry	2
代数学概論1	Introduction to Algebra 1	2
代数学概論2	Introduction to Algebra 2	2
解析学概論1	Introduction to Analysis 1	2
解析学概論2	Introduction to Analysis 2	2
幾何学概論1	Introduction to Geometry 1	2
幾何学概論2	Introduction to Geometry 2	2
応用数理概論1	Introduction to Applied Mathematics 1	2
応用数理概論2	Introduction to Applied Mathematics 2	2
数理科学特論1	Topics in Mathematical Sciences 1	2
数理科学特論2	Topics in Mathematical Sciences 2	2
数理科学特論3	Topics in Mathematical Sciences 3	2
数理科学特論4	Topics in Mathematical Sciences 4	2
数理科学特別講義1	Selected Topics in Mathematical Sciences 1	2
数理科学特別講義2	Selected Topics in Mathematical Sciences 2	2
数理科学セミナー1	Seminar on Mathematical Sciences 1	5
数理科学セミナー2	Seminar on Mathematical Sciences 2	5
数理科学セミナー3	Seminar on Mathematical Sciences 3	5
数理科学セミナー4	Seminar on Mathematical Sciences 4	5

*Credits in the academic transcripts are restricted to those in the list above.

Other courses may have their name changed as a result.

G30 Master's Course

Graduate School of Mathematics

2022. October

Graduation Requirements

1. Basic Specialized Courses/Specialized Courses (専門基礎科目／専門科目)
A combined total of at least 30 credits must be acquired.
At least 2 credits from Basic Specialized Courses (専門基礎科目 2 単位以上)
At least 28 credits from Specialized Courses, including 20 credits from Seminars (専門科目から、セミナー 20 単位を含む 28 単位以上)

A maximum of 4 credits from other schools' courses* will be recognized as credits required for completion. (他研究科等科目から 4 単位までを修了要件単位として認める) *implemented for graduate students enrolled AY 2022 onward

2. Master's thesis

Please look at the part of master thesis of the following webpage:

http://www.math.nagoya-u.ac.jp/en/education/2012/mc_program.html

It doesn't focus on G30 master program, but the explanation on master thesis also applies to G30 master students.

Others

Mid-Term Report

Year Study Report and Presentation

You are required to submit a report at the end of each of the first, the second and the third semesters. The report at the end of the second semester is called Year Report, and you also have to give an oral presentation on your study as preparation for 2nd year research. You obtain feedback to the report and the presentation from faculty members.

The reports should be made by reconstructing, based on your understanding, the materials you have studied and/or learned under the guidance of your advisor and in the courses you have taken.

The purpose of these requirements is to provide you an opportunity to confirm your understanding and to practice writing in mathematics toward your master thesis.

For further details, please contact us.

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