Programme Specification: Undergraduate
For students starting in Academic Year 2022/2023

1.Course Summary

Name of programme & award title with UCAS code	Applied Mathematics / Statistics [GG13]
Awarding Institution	Aberystwyth University
Individual Accreditation(s)	This programme is accredited to meet the educational requirements of the Chartered Mathematician designation awarded by the Institute of Mathematics and its Applications. This programme will meet the educational requirements of the Chartered Mathematician designation, awarded by the Institute of Mathematics and its Applications, when it is followed by subsequent training and experience in employment to obtain equivalent competences to those specified by the Quality Assurance Agency (QAA) for taught masters degrees.
Final Award	Bachelor of Science
Date of Publication	September 2023
QAA Subject Benchmark	

How this information might change: Please read the important information at https://www.aber.ac.uk/en/study-with-us/ug-studies/terms-conditions/. This explains how and why we may need to make changes to the information provided in this document and to help you understand how we will communicate with you if this happens.

2: Duration

Programme	Years
Applied Mathematics / Statistics [GG13]	3

3: Educational aims of the programme

4: Intended learning outcomes

5: Knowledge and understanding

6: Skills and other attributes

7: Transferable/Key skills

8: Work-based learning (where appropriate)

9: What is the structure of the programme?

Year 1 Core modules

Core (100 Credits)

Name	Module Code	Credits	Semester
Coordinate and Vector Geometry	MA10110	10	Semester 1
Probability	MA10310	10	Semester 1
Algebra	MA10510	10	Semester 1
Mathematical Analysis	MA11110	10	Semester 2
Differential Equations	MA11210	10	Semester 2
Statistics	MA11310	10	Semester 2
Calculus	MP10610	10	Semester 1
Further Algebra and Calculus	MP11010	10	Semester 2
Career Planning and Skills Development	MP12910	10	Semester 2
Classical Dynamics	PM14010	10	Semester 1

Year 1

Electives Choose 20 credits, as advised by the mathematics department

Year 2 Core modules

Core (90 Credits)

Name	Module Code	Credits	Semester
Linear Algebra	MA21410	10	Semester 2
Complex Analysis	MA21510	10	Semester 2
Introduction to Numerical Analysis and its applications	MA25200	0	Semester 1
Introduction to Numerical Analysis and its applications	MA25220	20	Semester 2
Hydrodynamics 1	MA25610	10	Semester 2
Advanced Dynamics	MA25710	10	Semester 2
Distributions and Estimation	MA26010	10	Semester 1
Applied Statistics	MA26600	0	Semester 1
Applied Statistics	MA26620	20	Semester 2

Core (20 Credits)

Name	Module Code	Credits	Semester
Mathematical Physics	PM26020	20	Semester 1

Year 2

Options Choose 10 credits

Name	Module Code	Credits	Semester
Real Analysis	MA20110	10	Semester 1

Introduction to Abstract Algebra	MA20310	10	Semester 1
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Final Year Core modules

Final Year

Options Choose 70 - 90 credits from the list below (Choose your preferred language, where applicable)

Name	Module Code	Credits	Semester
Norms and Differential Equations	MA30210	10	Semester 1
Topology	MA32610	10	Semester 1
Integral Transforms	MA33310	10	Semester 1
Partial Differential Equations	MA34110	10	Semester 1
Asymptotic Methods in Mechanics	MA34210	10	Semester 2
Mathematical Models of Biological Systems	MA34920	20	Semester 2
Topics in Biological Statistics	MA35210	10	Semester 2
Comparative Statistical Inference	MA36010	10	Semester 2
Linear Statistical Models	MA36510	10	Semester 1
Probability and Stochastic Processes	MA37410	10	Semester 2
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Hafaliadau Differol Rhannol	MT34110	10	Semester 1
Dulliau Asymptotig mewn Mecaneg	MT34210	10	Semester 2

Electives Choose 30 - 50 credits (level 3) as advised by the mathematics department.

10: University Regulations

Details of University Regulations can be found at https://www.aber.ac.uk/en/academic-registry/handbook/regulations/

11: Support for students and their learning

12: Entry Requirements

Details of entry requirements for the scheme can be found at https://courses.aber.ac.uk/

13: Methods for evaluating and improving the quality and standards of teaching and learning

14: Regulation of Assessment

Academic Regulations are published as Appendix 2 of the Academic Quality Handbook: https://www.aber.ac.uk/en/aqro/handbook/app-2/

15: External Examiners

External Examiners fulfill an essential part of the Universityâ€™s Quality Assurance. Annual reports by External Examiners are considered by Faculties and Academic Board at university level.

16: Indicators of quality and standards

The Department Quality Audit questionnaire serves as a checklist about the current requirements of the Universityâ€™s Academic Quality Handbook. The periodic Department Reviews provide an opportunity to evaluate the effectiveness of quality assurance processes and for the University to assure itself that management of quality and standards which are the responsibility of the University as a whole are being delivered successfully.Â