

# Mathematics Summer School 2026: Level 3 Entry to Engineering

## Who is it for?

The School of Science and Engineering (SSE) is running a Mathematics Summer School (MSS). The MSS for 2026 will be delivered online from 29<sup>th</sup> June until 21<sup>st</sup> August 2026 using GCU's Virtual Learning Environment (VLE) GCULearn, followed by two days of on-campus revision sessions on 24<sup>th</sup> and 25<sup>th</sup> August 2026, before the online exam on the final day of the MSS, 26<sup>th</sup> August 2026. Pre-recorded lectures, notes and other supporting materials will be hosted on GCULearn and live tutorial classes will be delivered via Collaborate Ultra.

The MSS is designed for students who have accepted an offer to join their selected course in Engineering but have not achieved Engineering Mathematics 5 (e.g. are a **compulsory** attendee). Students holding all the mathematics required by GCU (e.g. **voluntary** attendee) but would like to refresh their mathematical knowledge and study skills may also attend.

**There will be no cost for engaging in the MSS.**

## When and Where?

From the week commencing **29<sup>th</sup> June 2026**, attendees shall be provided online VLE access to the level 3 entry MSS, and it is expected that participants work through recorded lecture content via directed independent study throughout July and August.

A live MSS welcome session will be delivered on **Wednesday, 1<sup>st</sup> July at 10:00**, when an overview of the structure and content of the MSS will be presented online, including an overview of our VLE GCU Learn and an introduction to the Möbius software tool, which is used for our online exam. Note that you must be logged in to Collaborate Ultra 5 - 10 minutes prior to this live overview commencing. The link to access the overview will be emailed to you the week before the MSS, and it will be available on GCULearn.

Participants will be supported in their learning via live online tutorials throughout July and August. Nine live online tutorials will be delivered on Wednesdays and repeated on Saturdays. Participants can choose whether they attend a Wednesday tutorial session or a Saturday tutorial session. The dates of and topics covered at each tutorial are set out later in this document in the 'Timetables' section.

Two on-campus revision sessions are scheduled to take place at the GCU campus on **Monday, 24<sup>th</sup> and Tuesday, 25<sup>th</sup> August 2026**. The exam for the MSS will be held online, 10:00 – 12:30, on **Wednesday, 26<sup>th</sup> August**.

## Teaching and Assessment

Teaching is a mixture of lectures and tutorials.

Pre-recorded lectures with supporting materials for each MSS topic are available on GCU Learn and the GCU Maths Summer School webpages. Participants are expected to work through all lecture material prior to the tutorial being delivered on that topic.

Online tutorials will be delivered on GCU Learn using Collaborate Ultra. At tutorials, you will be expected to discuss any questions arising from the lecture material. Additionally, you are expected to undertake at least 50 hours of directed independent study throughout the duration of the MSS. You are urged to speak with your lecturer if you have any problems with the material.

### Level 3 Entry – Engineering

Lecturers: Lewis Osikibo Tamuno-Ibuomi,  
[LewisOsikibo.TamunoIbuomi@gcu.ac.uk](mailto:LewisOsikibo.TamunoIbuomi@gcu.ac.uk)  
Mehak Shafiq  
[Mehak.Shafiq@gcu.ac.uk](mailto:Mehak.Shafiq@gcu.ac.uk)

Lecture materials, including notes, slides, worked examples, and pre-recorded lectures, will be made available on GCU Learn within the online community (organisation) for each MSS group.

We expect all compulsory attendees to fully engage in the MSS by demonstrating regular engagement in the recorded lecture series, attendance at tutorials and sit the online exam – this will all be monitored throughout the duration of the MSS from commencement to completion. The Level 3 Entry Engineering MSS exam is to be taken online using the Möbius Assessment computer algebra system

### Attendance

Attendance at tutorials is mandatory for all compulsory attendees and will be monitored. Anyone who thinks they may experience difficulty attending sessions for reasons such as; caring responsibilities, illness, access to relevant IT equipment, etc. must notify us by email at [sseam@gcu.ac.uk](mailto:sseam@gcu.ac.uk) as soon as possible, detailing your reasons. Further guidance will then be provided depending on individual circumstances.

### Disability

We have taken an inclusive approach in our arrangements for MSS online exams. Our planning has taken into consideration connectivity, family responsibilities and disabilities amongst other factors. Please see later in this document for more information regarding examination arrangements for each MSS group.



University for the Common Good

Any student that has disclosed a disability at the application stage has been sent via email information about the Student Wellbeing service. Our Student Wellbeing team are meeting students virtually over the summer period and if any student wants to speak with them regarding their specific circumstances they can email [disability@gcu.ac.uk](mailto:disability@gcu.ac.uk).

## Accessing Maths Summer School Communities

### Registration

Access to the online Mathematics Summer School (MSS) communities (organisations) and learning materials on GCULearn will be via a Limited Access Account (LAA) assigned to you by GCU's IT service. You should receive two joining instructions emails from a GCU IT email address the week before the MSS starts or early in the first week of the MSS. One email will contain your unique GCULearn LAA username and the other a GCULearn LAA password - if you are not in receipt of such emails please first check your junk email folder. You should then login to GCULearn using these credentials. If you are unable to locate such an email please email the contact below for assistance. Continuing GCU students or GCU pathways students, attending the MSS, should login to GCULearn using your GCU student credentials (you won't be issued with a LAA).

Please note access to GCULearn by the LAA will be time-limited to two months. On registration for your course at GCU, you will be provided with a GCU student ID, GCU email address and password. Note that once you become a GCU student it is your GCU student password you should always use and not the LAA password provided to you for the MSS. If you wish to have access to the MSS community (organisation) and notes once you become a registered GCU student please contact the email addresses below and this access can be provided once the MSS has been completed.

If you have any problems completing your GCU registration for the MSS, you should email [joanna.marshall@gcu.ac.uk](mailto:joanna.marshall@gcu.ac.uk) for further assistance.

### Accessing GCULearn

GCULearn is a web-based system which supports and provides information (learning materials, assessments, announcements, contacts, etc.) about the modules you are enrolled on at university. It also provides access to features that can help facilitate communication and collaboration with groups/other students in GCULearn. Since GCULearn is used to provide information and display messages about your modules once you become a GCU student you should get into the habit of logging in regularly.

As GCULearn is a web-based system it can be accessed from any computer that is connected to the internet. If using GCULearn from home you will require internet access and browsing software such as Google Chrome or Mozilla Firefox. Once you have opened an internet browser there are two ways to access GCULearn:

1. via the following address: <http://blackboard.gcal.ac.uk>
2. on the student home page (<https://www.gcu.ac.uk/currentstudents>) under “Top services” click on the GCULearn link.

When logging in from home you will be asked to Sign On with your personal email address and the LAA password assigned to you by GCU’s IT service. Once you have logged in and clicked on the Sign On button, you will then be asked to agree to a Privacy policy about cookies. You should click on the OK button and you will be taken to your GCULearn page.

### **Accessing MSS communities**

Under the Organisations menu tab on GCULearn, the Mathematics Summer School community (organisation) you have been enrolled on will be listed.

#### [Maths Summer School - Level 3 Entry Engineering](#)

Clicking on the appropriate community link will take you to relevant MSS materials for your course and provide access to online lectures and tutorials.

### **Accessing MSS lectures and tutorials**

Pre-recorded lectures have been built into GCULearn in subject packages and can be accessed via the “Content” tab. The videos are embedded into each section, accompanied by relevant lecture notes and example questions to support your learning.

A link to the Collaborate Ultra tutorials will be posted in an announcement within your community on GCULearn and will also be emailed to your personal address. Access to these sessions is allowed up to 15 minutes before the start time to enable students to check their connection.

## **Accessing recordings, slides, worked examples and more**

These materials will be made available via appropriate links within your community on GCULearn. Specific guidance on how to access the material will be provided by MSS lecturers and instructions uploaded to GCULearn.

## **Browser Recommendations for GCULearn**

For Blackboard Learn, Anthology supports Google Chrome™, Mozilla® Firefox®, Apple® Safari®, and Microsoft® Edge® desktop and mobile browsers. All these browsers apply updates automatically for most users. Anthology makes every effort to support the most recent version upon release. For these supported browsers, these are the supported versions:

Google Chrome™, most recent stable version and two preceding versions.

Mozilla® Firefox®, most recent stable version and two preceding versions.

Apple® Safari® for MacOS and iOS, two most recent major versions.

Microsoft® Edge®1 most recent stable version and two preceding versions

Run the browser checker to see whether Blackboard Learn supports your browser.  
([https://help.blackboard.com/Learn/Student/Ultra/Getting\\_Started/Browser\\_Support/Browser\\_Checker](https://help.blackboard.com/Learn/Student/Ultra/Getting_Started/Browser_Support/Browser_Checker))

Blackboard Learn does not require any specific browser plug-ins, although added content may require plug-ins to view. Recent updates to several browsers have included changes to how the browser handles third-party cookies. These changes may affect tools from other providers that integrate with Blackboard Learn. If you have trouble accessing an integrated tool after a browser upgrade, edit your browser's settings to allow sites to save and read cookie data. You can find instructions for Chrome, Safari, Firefox, and Edge online.

## Maths Summer School Timetables

### Level 3 Entry Engineering – Maths Summer School 2026 – Tutorial Timetable

Topic	Staff	Tutorial (Wednesdays)	Tutorial (Saturdays)
<b>Welcome: MSS overview, Möbius and GCU Learn (online)</b>	Lewis, Mehak & Joanna	Wednesday 1st July 10:00 - 11:30	n/a
<b>Tutorial 1: Partial Differentiation (online)</b>	Mehak	Wednesday 8th July 10:00 - 11:30 12:30 - 14:00	Saturday 11th July 10:00 - 11:30 12:30 - 14:00
w/c 13th July: Self-study			
<b>Tutorial 2: Ordinary Differential Equations (ODEs) 1 (online)</b>	Mehak	Wednesday 22nd July 10:00 - 11:30 12:00 - 13:30	Saturday 25th July 10:00 - 11:30 12:00 - 13:30
<b>Tutorial 3: Ordinary Differential Equations (ODEs) 2 (online)</b>	Lewis	Wednesday 22nd July 14:00 - 15:30 16:00 - 17:30	Saturday 25th July 14:00 - 15:30 16:00 - 17:30
w/c 27th July: Self-study			
<b>Tutorial 4: Laplace Transforms 1 (online)</b>	Mehak	Wednesday 5th August 10:00 - 11:30 12:00 - 13:30	Saturday 8th August 10:00 - 11:30 12:00 - 13:30
<b>Tutorial 5: Laplace Transforms 2 (online)</b>	Lewis	Wednesday 5th August 14:00 - 15:30 16:00 - 17:30	Saturday 8th August 14:00 - 15:30 16:00 - 17:30
<b>Tutorial 6: Laplace Transforms 3 (online)</b>	Lewis	Wednesday 12th August 10:00 - 11:30 12:00 - 13:30	Saturday 15th August 10:00 - 11:30 12:00 - 13:30
<b>Tutorial 7: Linear Systems of ODEs 1 (online)</b>	Lewis	Wednesday 12th August 14:00 - 15:30 16:00 - 17:30	Saturday 15th August 14:00 - 15:30 16:00 - 17:30
<b>Tutorial 8: Linear Systems of ODEs 2 (online)</b>	Lewis	Wednesday 19th August 10:00 - 11:30 12:00 - 13:30	Saturday 22nd August 10:00 - 11:30 12:00 - 13:30
<b>Tutorial 9: Möbius training (online)</b>	Mehak (Wed) Lewis (Sat)	Wednesday 19th August 14:00 - 15:00	Saturday 22nd August 14:30 - 16:00
<b>Revision (GCU campus)</b>	Lewis	Monday 24th August 10:00 - 12:00 13:00 - 15:00	n/a
<b>Revision (GCU campus)</b>	Lewis	Tuesday 25th August 10:00 - 12:00 13:00 - 15:00	n/a
<b>Exam (Möbius) (online)</b>	Lewis	<b>Wednesday 26th August 10:00 - 12:30</b>	n/a

### **MSS Hours**

Recorded Lecture Videos: 17 lectures = approx. 19 hours;

Recorded Revision Videos: 7 classes = approx. 5 hours;

Live Online Tutorials: 9 online + 4 on-campus = 33.5 hours

**Total:           57.5 hours**

Additional support with the course material is available on weekdays between 10am and 4pm.  
Students requiring additional support should contact their lecturer to arrange an agreed time.

**Online Möbius exam:** Available: 10:00 to 12:30 on Wednesday 28<sup>th</sup> August 2025.

Additional information and lecture materials can be found at the following link:

<https://www.gcu.ac.uk/study/undergraduate/collegestudents/college-connect/summerschool/mathssummerschool>