Computer Science
Canvas Based Digital Exams:
Technical Guide for Students

F27SA Software Development 1
F27ID Introduction to Interaction Design
F28SG Introduction to Data Structures and Algorithms
F28WP Web Programming
F29AI Artificial Intelligence
F29DC Data Communications and Networking
F20DL/F21DL Data Mining and Machine Learning
Purpose of this Guide

The purpose of this Guide is to provide practical information about how to access and complete your Canvas Based Digital Exam.

These exams will take place in-person within an approved computer lab. You will be given your lab allocation in advance of the exam. It is important that you attend the lab you have been allocated to.

These exams will be timed and take the format of a Canvas Quiz, containing many short questions (and may include Multiple Choice, Multiple Answer, Short Answer and/or Essay Style Questions).

This Technical Guide will be available on the Examinations website https://www.hw.ac.uk/uk/students/studies/examinations.htm

These guides are for all students across all campuses and modes of study. Do check the website in case there is a specific guide for your set of assessments.

This Canvas Digital Exams: Technical Guide provides information on:

1. Important information about your Canvas Digital Exam
2. Multi-Factor Authentication (MFA)
3. How to access and complete your Canvas Digital Exam
4. Top tips
5. Appendix 1: Instructions on how to change the default time zone on Canvas to your local time
Important! Please read these points carefully

1. PLEASE TAKE ACTION NOW! - Log into Canvas as soon as possible to check that you can access the course and can see the End of Semester Canvas Digital Exam Module. If you cannot access Canvas, please contact us right away so we can resolve any issue before the release of your examination.

2. Seven days before your exam date: Log into Canvas again to check that The Exam Practice Area is available and that you can see the Placeholder for the Exam. For Canvas Digital Exams, this will be contained within the main site for the Course. The practice area within your course will be available at least seven days before your exam date and until the day before your examination starts. View exact timings on your Exam Timetable.

3. Computer Labs - You will only be able to access the exam within the Computer Lab you have been allocated to. If you have never been to the lab, it would be advisable to visit the lab in advance so you can easily find it on the day of the exam.

4. Exam times – Your Canvas Digital Exam will begin at the start time and date specified on the exam timetable. Please note Canvas operates in UK time (GMT) and that the time zone on Canvas will be defaulted to UK time, unless you have updated your local time zone setting (see Appendix 1). Please note, you will not be admitted if you arrive more than 30 minutes after the start of the exam.

5. Duration – The standard duration of a Canvas Based Digital Exam is 2 hours. However if you start the exam late (no later than 30 minutes) the time will be reduced accordingly and must be submitted by the specified due/end time. If you have reasonable adjustments please see note 7 below.

6. Mistakes on exam – If you identify what you consider to be a mistake on your Canvas Digital Exam, please inform the invigilator. Any mistakes will be investigated and taken into consideration during the moderation process. You should then continue with the exam.

7. Late Submission of Exam – No late submissions will be accepted. Once the time for the exam expires your exam will be auto-submitted. Students who are unable to complete their examinations, and who have mitigating circumstances, must follow the MC process as outlined in the updated Student General Information Guide.

8. Reasonable adjustments - As part of reasonable adjustments measures, you may have been given additional time to complete your exam. This will be displayed on the exam introduction page. The practice exam will have the adjustments included, so please check the duration of the practice exam and if your additional time has not been added to the practice exam email e-exams@macs.hw.ac.uk as soon as possible. If you have other adjustments and you have not yet had arrangements made, please contact Disability@hw.ac.uk

9. Contact us – If you have any problems accessing Canvas or the Exam Areas of your course e-mail e-exams@macs.hw.ac.uk stating the course code, your campus and include any relevant screenshots.
Multi-Factor Authentication

Since December 2021 all students need to use Multi-Factor Authentication with their Heriot-Watt user account.

MFA is a secure additional login process and is one of the most effective ways to keep you and your work safe online.

Please ensure that you have your mobile device fully charged and accessible at the start of your Canvas Digital Exam to avoid any potential issues during the login process.

We would recommend using the Authenticator app and connect your phone to the Wi-Fi to ensure you receive the approval notification.

Once you have logged into Canvas you should switch off your phone and put it away during the examination.

If you have not already done so please prepare your account well in advance of any exams and avoid any potential issues by using our guidance information.

If you have any questions or require further assistance, please don’t hesitate to contact Information Services at ISHelp@hw.ac.uk.
Top Tips

1. Ensure you know which computer lab you have been allocated to and which Canvas course the exam will take place on. You will **not** be able to take this exam from home, or any other location.

2. Ensure that you have read these exam instructions

How to Access Your Canvas Digital Exam

This guide explains how students can access and submit their Canvas Digital Exam

The exam will take place in an approved computer lab. It is important that you attend the lab you have been allocated to. Your attendance will be recorded, and you will not be allowed to sit this exam from any other location.

Accessing the Canvas Course

**Note:** Please ensure you always use the most current version of your browser, we recommend using Chrome. Please click on the following link for further information on browsers [https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-the-browser-and-computer-requirements-for-Canvas/ta-p/66](https://community.canvaslms.com/t5/Canvas-Basics-Guide/What-are-the-browser-and-computer-requirements-for-Canvas/ta-p/66)

**Step 1:** Go to the Student Portal [https://portal.hw.ac.uk/](https://portal.hw.ac.uk/)

**Step 2:** Access Canvas

![Fig 1: Student Portal](image)
Step 3: Locate Your Course

Your Canvas Digital Exam will appear on the main canvas courses site (please note, other types of Exams may have their own separate course sites). Access the course as you normally would via the Dashboard or via the courses link on the left navigation menu.

Fig 2: Dashboard

Within the Dashboard, click on the Course Tile or select the course from the Courses Tab.

Fig 3: Courses

This will take you to the Home Page for your Course. Click on Modules and look for the module entitled End of Semester Canvas Digital Exam. There you will see a page entitled Exam Information and an Exam Practice Area, which will become available at least 7 days before the Final Exam and remain open until midnight (UK Time) the day before the Final Exam. The Final Exam will be called F2#XX 2022 Canvas Digital Exam (where F2#XX will be the course code for your exam).

Fig 4: Exam Module

Click on Exam Information to review the exam instructions.
Exam Practice Area

Within Modules, Select the Exam Practice Area.

This will allow you to become familiar with the canvas quiz interface. The practice area will contain at least three questions. Some courses may include additional questions or examples of a past paper.

Please note this practice area will not be visible to you on the day of the exam.

Click Take the quiz to start the Practice Exam.

Quiz Interface

Questions will be presented one at a time on the screen. Depending on the question type, you should select or enter your answer on the screen. Click the Next button to progress to the next question. On the right-hand side of the screen you will be able to view your progress through the questions and the remaining time. To return to earlier questions you can click on the question number on the right-hand menu or click the previous button.
Resuming the quiz

If you lose connection during the quiz, navigate back to the Quiz via the Modules or Quizzes area of the course and click on the name of the exam and then click the **Resume quiz** button. Please note the time will continue to count down.

![Resume quiz](image)

**F2#XX Exam Practice Area**

<table>
<thead>
<tr>
<th>Due</th>
<th>Points</th>
<th>Questions</th>
<th>Available</th>
<th>Time limit</th>
<th>Allowed attempts</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 Dec at 23:59</td>
<td>3</td>
<td>3</td>
<td>1 Dec at 00:00 - 7 Dec at 23:59</td>
<td>180 Minutes</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>

![F2#XX Exam Practice Area](image)

**Submitting the Practice Exam**

Once you have completed all the questions click the **Submit quiz** button to submit the quiz. If you run out of time, the quiz will auto-submit at the scheduled end time.

![Submitting the Practice Exam](image)

Once you have submitted the Practice Exam you will see the screen below. The Practice exam has **Unlimited attempts**, and you can click to **Take the quiz again** if you wish to. Please note the Final Exam will be a **Single Attempt Only** and you will **NOT** be able to re-attempt it once submitted.

![F2#XX Exam Practice Area](image)

**Attempt history**

<table>
<thead>
<tr>
<th>Attempt</th>
<th>Time</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATEST</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>61 minutes</td>
<td>2 out of 3</td>
</tr>
</tbody>
</table>

![Re-attempting the Practice Exam](image)
On The Day of Your Exam

Go to the approved computer lab you have been allocated to. It is important you arrive 15-20 minutes early to log into the Canvas. You will not be able to take the exam from any other location than the lab you have been allocated to. Please ensure you know your user name (usually the first part of your hw.ac.uk email address and your password. Please visit the lab in advance to ensure you can log in before the day of the exam.

Once you have logged into the PC, navigate to the relevant course on Canvas. Within Modules click on the F2#XX 2022 Canvas Digital Exam (F2#XX is the code for your course).

If you click on the link before the start time you will see screen that the exam is currently locked. Please refresh this page at the designated start time.

At the designated start time, click on the link (or refresh the page if you already have). You will now see a Take the quiz button which you should click on.

You will be prompted for an Access code. This will be read out by the invigilator at the start of the examination. You should enter the code immediately when requested and click submit. If you didn’t hear the code, raise your hand and wait.

This quiz is restricted by an access code. You’ll need to ask your teacher or proctor to type in or tell you the access code in order to take the quiz.
During the Exam

During the exam you should only have one browser window open containing the Canvas quiz. You should not open any other tabs, windows or applications. You should not attempt to communicate with anyone else within or outwith the lab. You will be monitored by invigilators during the exam and any attempt to view unauthorised material or communicate with anyone else will constitute a breach of examination regulations. If you experience any issues during the exam raise your hand to get the attention of the invigilator.

There is time factored into the start of the exam to allow everyone to log into Canvas and enter the access code. If you start after this time, the duration will be reduced accordingly. The exam will be auto-submitted at the specified end time. Note Canvas operates in GMT, therefore if you are outwith the UK, please see appendix 1 which shows how to set up Canvas for your local time zone.

Submitting the Exam

Ensure you have completed as many questions as you can. If you finish early you can review the questions before Submitting the Quiz. Please note once you click the Submit quiz button you will not be able to return to the quiz. You will not be allowed to leave the venue within the first hour. If you do wish to leave the exam after one hour, please raise your hand to ask the invigilator who will ensure you have submitted your quiz before you leave the room.

If you run out of time, the quiz will auto-submit at the scheduled end time. Once you have submitted the quiz you will see a screen like the one below. The quiz scores will not be made available immediately after the exams as the marks need to be approved by the relevant assessment boards.

![Fig 14: Submitted Exam](image)

Top Tips Continued

3. Ensure you know which lab you have been allocated to.
4. Ensure you know which Canvas course your exam is located on.
5. Ensure that you have read these exam instructions
6. Ensure you have tried the practice area and are familiar with the quiz interface.
7. Ensure you start the quiz at the specified start time and submit within the duration.
Appendix 1

Instructions to change the default time zone on Canvas to your local time

Select Account and Settings from the menu on the left-hand side. You will see that the Time Zone is set to Edinburgh:

You can select the time zone you require from the dropdown menu, for example Malaysia.

All times in Canvas will now be displayed to you in local time.