

COMPUTER GRAPHICS AND DESIGN (CGD315118)

External Assessment Specifications inform the development of external assessments. The primary audience for this document is the course Setting Examiner and Exam Critics. It may also be of use to teachers and students.

These specifications must be read in conjunction with the current Course Document on the TASC website.

The external assessment for this course consists of a written exam.

The criteria to be externally assessed are:

WRITTEN EXAM STRUCTURE

The written exam is TWO hours.

Students will have an additional 15-minute preparation time during which students can take notes on the note paper provided and highlight any key words in the exam booklet during the allocated time. Students will not be permitted to start their exam until advised by the Exam Supervisor.

The written exam includes FOUR sections.

The criteria to be externally assessed are:

Criterion 6: analyse the impact of design in society

Criterion 7: describe and apply key features, applications and influences on contemporary computer graphics systems

SPECIFIC MATERIALS AND EQUIPMENT APPROVED FOR USE BY STUDENTS

There is no external Information Sheet for this course.

ASSESSMENT

All criteria are assessed using extended ratings of A+, A, A-, B+, B, B-, C+, C, C-, t+, t, t- or z. Note that a C- is a low C, in that it just meets the standards for a C but is not a t.

The algorithm to achieve final ratings from Sections A – D will take account of the fact that Section D carries double the weight of Section B, and Section C carries double the weight of Section A.

A set of solutions or a marking tool will be developed by the Setting Examiner, provided to markers at the marking meeting that follows the external written exam; and will be available from TASC in the following year.

The external assessment must include questions that, separately or together, give opportunities to demonstrate the standards from rating C to rating A.

Final results will be awarded as a rating of A, B, C, t or z in the above criteria. These ratings are used in determining the final award according to the algorithm in the course document.

SECTION A

Structure

- This section will take students approximately 20 minutes to respond to.
- Students will respond to FOUR questions.
- This section will address course content from Unit 1 – Design Extension.

Assessed Criteria

- Criterion 6 analyse the impact of design in society (all Elements).

Nature of Questions

- EIGHT questions will be provided, and students will answer FOUR from the eight.
- All questions provided will cover course content from Unit 1 – Design Extension.

Nature of Responses

- Responses will be assessed using extended alpha ratings.
- Paragraph length written response.

SECTION B

Structure

- This section will take students approximately 20 minutes to respond to.
- Students will respond to FOUR questions.
- This section will address course content from Unit 2 – Design Studios.

Assessed Criteria

- Criterion 7 describe and apply key features, applications and influences on contemporary computer graphics systems (all Elements).

Nature of Questions

- EIGHT questions provided with a choice to answer FOUR.
- All questions provided will cover course content from Unit 2 – Design Studios.

Nature of Responses

- Responses will be assessed using extended alpha ratings.
- Paragraph length written response.

SECTION C

Structure

- This section will take students approximately 40 minutes to respond to.
- Students will respond to ONE question.
- This section will address course content from Unit 1 – Design Extension.

Assessed Criteria

- Criterion 6 analyse the impact of design in society (all Elements).

Nature of Questions

- FOUR questions provided with a choice to answer ONE.
- All questions provided will cover course content from Unit 1 – Design Extension.

Nature of Responses

- Responses will be assessed using extended alpha ratings.
- Responses to this section will be in the form of written response accompanied by sketches and annotations.

SECTION D

Structure

- This section will take students approximately 40 minutes to respond to.
- Students will respond to ONE question from SIX options.
- This section will address course content from Unit 2 – Design Studio.

Assessed Criteria

- Criterion 7 describe and apply key features, applications and influences on contemporary computer graphics systems (all Elements).

Nature of Questions

- SIX questions provided with a choice to answer ONE.
- One question must relate to 3D modelling and then one question for each of the following:
 - Interactive Design
 - Solid Modelling and 3D fabrication
 - Video and Motion Graphics
 - Animation
 - Asset Development, Game Design and Production
- All questions provided will cover course content from Unit 1 – Design Extension.

Nature of Responses

- Responses will be assessed using extended alpha ratings.
- Responses to this section will be in the form of an extended response.

EXTENDED DESIGN PROJECT GUIDELINES

These guidelines provide students, teachers and markers with details about what students must do for the folio that forms the Extended Design Project part of the external assessment for this course.

This document does not repeat essential information found in other documents and must be read in the context of:

The course document (<https://www.tasc.tas.gov.au/students/courses/technologies/cgd315118-4/>)

The [TASC Frequently Asked Questions – Externally assessed folios](#), provides general information for all students and teachers about externally assessed folios, including a how-to guide for submitting folios and a link to the TASC guide to Authenticity and Academic Integrity.

The course Assessment Report located at <https://www.tasc.tas.gov.au/students/courses/technologies/cgd315118-4/> addresses issues, strengths and weaknesses about the assessment of the previous year's folios and should be read in conjunction with the guideline.

Projects will be assessed on:

Criterion 2: apply a design process to generate solutions.

Criterion 5: analyse and apply elements and principles of design.

Criterion 8: apply digital technologies to create designed solutions.

RESOURCE REQUIREMENTS

Students undertaking this course must have access to appropriate industry-standard graphics software applications and suitable hardware to enable the efficient operation of such applications.

The final Extended Project will be externally assessed and must be submitted in electronic format by the student to their teacher. Due dates for folio submission are available from the [TASC website](#).

The teacher cannot extend this published final “due to teacher date”, however, they may set an earlier deadline for the purpose of internal assessment

ADVICE TO STUDENTS

Students are required to complete an extended Design Project using computer generated graphics, or digital content, in a field of design.

Within this extended design project you must:

- Develop and provide a clear, concise brief. A reproduction of an existing design is not a design project.
- Follow a structured design process as is typically applied in a commercial setting.
 - It is essential that you provide evidence of design development through scanned sketches that show exploration and experimentation of potential design solutions through to a final solution.

Storyboarding for animations or motion graphic sequences as well as site maps for web based interactive projects is essential.

- Prepare a presentation of your design process and a written analysis essay for external assessment
- Use contemporary digital design methods in the presentation of the project

You must work within a contemporary design context, creating content in, and for a digital environment. Your project will use design principles, processes and practice to explore the diverse range of possibilities available for designing and creating visual content in the digital world.

When choosing the subject of your design project you must take into consideration environmental and social factors. You must fully justify your choice in the documentation of the design process and your teacher must approve it. The projects must have rigor in terms of design and design process, including context and purpose.

Your project content must be comparable with, or lower than M classification category (content is moderate in impact) of the Australian National Classification Scheme

(<http://www.classification.gov.au/Pages/Home.aspx>). Classifiable elements are themes, violence, sex, language, drug use and nudity. Material that does not comply with this classification category will not be marked.

PRESENTATION OF EXTENDED DESIGN PROJECT

Students must complete and submit the Student Folio Declaration Form available on the [TASC website to teachers](#) before the project is submitted. Teachers will hold the declaration and will be asked to provide to TASC if required.

The project must be submitted via TRACS. All sketches and printed support materials shall be scanned and submitted as part of the digital folio. No physical projects (e.g. 2D models and 3D models) or paper based content will be accepted for external assessment, and will not be assessed.

The project must:

- be a single coherent folio presentation
- not exceed 40 A4 equivalent pages with text set no smaller than 10 point for body text and not a series of separate files. Not included in this maximum limit:
 - A cover page (containing the project title and student's TASC ID number only)
 - References
 (NOTE: Should a folio be submitted that exceeds this limit, only the first 40 pages will be assessed).
- be no larger than 500 megabytes in total size.
- be submitted as one PDF, with the exception of animated content. Animated content produced by the student may be submitted as an MP4 file separate to the PDF but must represent contemporary screen aspect ratios and have an appropriate compression codec applied. It is recommended that animated content be presented at 720p resolution. If an animation is part of the Extended Project the project shall be submitted as a ZIP file that contains the MP4 format animation file and the PDF format file of the student's design process. Animation and motion graphic sequences must adhere to a range of maximum time limits as follows:

• Commercial	either 30 or 60 seconds exactly
• Story/music clip	4 minutes maximum*
• Industrial walk through/process	4 minutes maximum*
• Special effect sequences	4 minutes maximum*

 *including all titles and credits. Any material that exceeds four minutes will not be viewed.

All your work must clearly state the title of the project. Sketches to show the development of the initial concept through to the final design ideas must accompany the project. Storyboards are an essential aspect of any animation or motion graphic sequence. Sketches and story boards must be included in your folder for submission.

Material such as brochures and internet based information may be included to substantiate evidence of research prior to design development. Such information **must** demonstrate a direct connection to the project's design development through annotation and be referenced appropriately. You must also include screen grabs and supportive summary text that explains the project production process using computer graphics applications to prove the project is your original work.

You must acknowledge and clearly state any 3D objects/images used in the project from an outside source on the Extended Design Project Proforma.

The folio is to be structured using the following format

Cover page	Project title and student's TASC ID number
Brief or Proposal	<p>A definition of the design task and background information connected to the identified need of the project's design intention.</p> <ul style="list-style-type: none"> • The potential target audience or intended client, • The purpose, that is, the functional intention • The context, that is, where the project outcome may be used or located and key social and environmental considerations • Particular constraints or limits that will guide the project's design development and realisation.
Research	<p>This is an integral part of the design process. Research provides a window to essential information about important aspects of the brief, the investigation of media and materials that guide the functional intentions, identifying the computer graphics systems, processes & technology to inform the design development of the project</p> <p>This is also known as a precedents investigation. It is the collecting together and presenting of all the ideas and design inspiration from which you develop your concepts for the design of your project and also takes account of the social and environmental factors that need to be researched.</p> <p>This must demonstrate a direct connection to the project's design development through annotation and be referenced appropriately.</p>
Design Development	<p>Sketches (drawn or digitally drawn) to show the development of the initial concept through to the final design ideas must accompany the project. Sketches must be included that demonstrate an exploration and experimentation of design ideas that lead to a resolved design intention. Sketches shall be annotated with supporting text that make reference to the application and use of appropriate form and functional considerations for the context of the project's design intention. Storyboards are an essential aspect of any animation or motion graphic sequence. A storyboard must be included if the student is intending to produce an animation or motion graphic sequence.</p>
Production	<p>You must include screen grabs and supportive summary text that explains the project production process used to generate your design content with computer graphics</p>

	applications. This helps to prove the project is your original work. These screen grabs and annotations shall clearly summarise the technical processes used in the production phase and describe the use of specific tools within the computer graphics applications used to generate your own designed digital content.
Industry Analysis	<p>You must include a research analysis essay (approximately 1500 words) that highlights clear links between the chosen design specialisation and the industry that is most relevant to your project work. The essay must include typical design considerations referencing a contemporary or historical perspective and social context, computer graphic production processes relevant to the project's design context and industry examples relevant to the specialisation area in the essay content.</p> <p>The research analysis essay is NOT a commentary of the design process undertaken by the student NOR a commentary about the general nature of the project design area but a higher level analysis of design considerations and computer graphics systems relevant to the design area under study.</p> <p>A plan for your research analysis essay in the form of a mind map or as a series of notes outlining the format of the essay must also be included.</p> <p>NOTE Students will be penalised against Criterion 5 if referencing conventions are not appropriately applied. Refer to the TASC Guide to Academic Integrity.</p>
Final Design	The student must include a range of suitably refined images or an animation/motion graphic sequence to fully showcase the realisation of the project's design intention after the production phase. If an animation or motion graphic sequence is produced this must be included as a separate file in the specified MP4 format. It is recommended that animated/motion graphic content should be at 720p resolution with a medium bitrate.
Evaluation	Evaluate as to how well the design intentions as expressed in the brief have been met. Reflect on what has been achieved and also what may not have been achieved.
References	<p>The Harvard referencing system is the preferred referencing system used for 'in text' sources used (e.g. images in the documentation of the project's design process) and for a Reference List.</p> <p>You must acknowledge and clearly reference any 3D objects/images or other assets used in the project's computer graphic production from an outside source.</p>

The Extended Design Project will form the basis of the evidence that will be assessed externally by TASC in determining student ratings on assessment Criteria 2, 5 & 8. If you do not submit an Extended Design Project the best you can achieve is a Preliminary Achievement (PA) in this course.

You are advised to check the document carefully prior to submission as TASC will not be responsible for files that are non-operational and cannot be viewed by examiners, therefore cannot be assessed.

Your work must be identified by your TASC student number ONLY. Your name or the name of your school must NOT appear anywhere in the folio.

RESEARCH ANALYSIS ESSAY

You must include a research analysis essay (approximately 1500 words) that highlights clear links between the chosen design specialisation and the industry that is most relevant to your project work. The essay must include typical design considerations referencing a contemporary or historical perspective, computer graphic production

processes relevant to the project's design context and industry examples relevant to the specialisation area in the essay content.

The research analysis essay is NOT a commentary of the design process undertaken by the student but a higher level analysis of the specialisation area under study.

A plan for your research analysis essay in the form of a mind map or as a series of notes outlining the format of the essay must also be included.

NOTE Students will be penalised against Criterion 5 if referencing conventions are not appropriately applied. Refer to the TASC Guide to Academic Integrity.

ADVICE TO TEACHERS

You must approve the Extended Design Project topic. You must consult with your students regularly during the development of their project.

You should encourage students to select an Extended Design Project topic that links with an area of genuine interest to them.

You are strongly advised to rein in the scope of the Extended Design Projects rather than to encourage the choice of expansive and overly ambitious topics. It is vital that students are advised to produce a fully resolved design project such that each stage of the design process is fully addressed for the context of the project. It is strongly advised that students create the computer graphics-based content of their design project.

You are to allow 50 hours of dedicated class time for Extended Design Project work.

The projects will be marked by a panel of examiners (that includes the Marking Coordinator) at a centralised location.