

## BSc with Honours in Computer Game Applications Development – 2023 entry

**Duration of programme:** Standard 4 years, (where students join the programme in year 1)

**Award on successful completion:** Bachelor of Science with Honours

**Location of delivery:** Abertay University, Bell Street, Dundee

**Accreditation:** ScreenSkills

**Composition of the programme:** 120 SCQF (Scottish Credit and Qualifications Framework) credits (60 ECTS) in each academic year, delivered in modules of 20 credits each, with 3 modules taken in term 1, and 3 in term 2 each year. In each of Year 1 and Year 2 one twenty credit comprises a series of microcredentials. A 40 credit group project is included in third year and a 40 credit independent project is included in the final year. **Contact hours and workload:** Each academic year typically requires 1200 hours of student effort; on average across the 4 years of this programme, 25% of that time is in lectures, seminars and similar activities; the remainder is independent study.

**Assessment methods:** There is a mixed assessment strategy used on the course. Most modules are assessed through coursework, which may include project work and student-led presentation. Some modules use a mixture of coursework and formal examination.

**Academic staff:** This programme is delivered by staff in the Division of Games and Arts and the Division of Games Technology and Mathematics in the School of Design and Informatics. Staff profiles can be viewed at <https://www.abertay.ac.uk/staff-search/>

<b>Core modules in the programme:</b>
Computer Hardware Architecture
Mathematics for Games
Games Programming
Software Design
Data Structures and Algorithms
Graphics Programming w/ Shaders
Professional Project
Network Systems for Games Development
Artificial Intelligence
Honours Project
<b>Other modules that may be offered, but are subject to change over time:</b>
Games Programming and System Architectures
Gameplay Mechanics Development
Applied Game Technologies
Tools Programming
Audio Programming

**Developments in the discipline:** Programming languages, APIs, development tools and hardware used will change over time to reflect current industry practice.