GAME DEVELOPMENT

Bachelor of Science: Game Development
Minor: Computer Science, Information Technology, Game Development and Web Development
Certificate: Database Design & Implementation

The Bachelor of Science degree in Game Development is an interdisciplinary degree. It focuses on computer science courses for game development, but also includes art, music and writing courses providing students a cross-disciplinary knowledge base in game development. Students who receive a degree in Game Development may choose to work in a variety of areas after graduation, such as game developer, video game programmer, game designer, mobile app developer, and web developer. Employers recommend one or more internships to be successful and competitive when entering this field.

Career types associated with Game Development
(Is this a good fit for you? Are you a…)
- Investigative - "Thinker"
- Conventional - "Organizer"
- Social - "Helper"
- Realistic - "Doer"

Related skills, values, and qualities
- Ability to adapt to constant change
- Proficiency in reading, writing, and thinking, questioning, and analyzing
- Proficiency in problem solving
- Ability to think logically and organize
- Proficiency with computers
- Aptitude for accuracy and detail
- Interest in Art/Drawing
- Ability to work under pressure

Courses Game Development majors typically enjoy
- Algebra, Trigonometry, Calculus
- Art
- Design
- Game Design
- Computer Programming
- Computer Science
- Web Development
- Creative Writing

Common interests of Game Development majors
- Working with computers, software, gaming
- Completing puzzles or playing games of strategy
- Solving logic problems
- Participating in eSports or gaming related clubs
- Sketching or drawing game characters or scenes
- Working part-time or volunteering in a technology store/department
- Reading computer or technology publications

For more information about the major
Contact the Computer Science and Information Technology Department, 256 Old Main, 610-683-4340, or visit www.kutztown.edu/csit
CSITDepartment@kutztown.edu

KU Majors related to Game Development
Mathematics, Communication Design, Applied Digital Arts, Studio Art

FOUR STEPS
TO SUCCESS

EXPLORE	DISCOVER	EXPERIENCE	IMPLEMENT
1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR

1ST YEAR

- Enroll in the Career Exploration Certificate.
- Attend info sessions to learn about career development and personal branding.
- Take a career assessment to identify and confirm interests.
- Get involved in campus clubs and organizations.
- Develop basic workplace skills through jobs or volunteer work.
- Talk with professors, family, and friends about career ideas.
- Conduct informational interviews with professionals working in fields of interest.
- Develop a relationship with your professors and faculty advisor.

2ND YEAR

- Meet with CDC career coach.
- Attend info sessions to learn about resume writing, and externships.
- Confirm your choice of major and consider options for double major or minor.
- Research careers of interest.
- Complete a job shadowing (externship) experience.
- Seek meaningful employment or volunteer work in a field related to your major.
- Explore options for undergraduate research and study abroad.
- Write a resume and have it reviewed by the CDC.
- Manage your online presence.

3RD YEAR

- Enroll in the Career Success Certificate.
- Complete an internship and/or undergraduate research.
- Attend info sessions about internships, interviewing, job search strategies, and grad school.
- Build a LinkedIn profile and continue to monitor your online presence.
- Complete a mock interview.
- Build skills through research projects, part-time employment, and volunteer work.
- Participate in employer panels, site visits & networking events.
- Attend internship & job fairs.
- Take on a leadership role in a student organization or work.
- Consider graduate school options and prepare for admissions tests.

4TH YEAR

- Attend your Senior Kick-off session and other info sessions to prepare for job search/grad school.
- Update your resume and LinkedIn profile.
- Create cover letter drafts.
- Gain experience through internships and/or undergraduate research.
- Secure references for job/grad school applications.
- Create your "30 second" commercial/professional intro.
- Meet with CDC to develop job search strategies.
- Research employers.
- Network with professionals through events and social media.
- Join a professional organization in your discipline.
- Attend the senior etiquette luncheon or dinner.
- Participate in job fairs and on-campus interviewing.

Sample Career Titles

Game Development majors can be found working in a wide variety of career fields. Here are just some career titles that may be of interest. Please note that some jobs may require further education and training. To learn more about these careers, visit http://online.onetcenter.org or www.bls.gov/oco.

Animator	Game Designer	Network Programmer
Artificial Intelligence I Programmer	Game Marketer/PR	Physics Programmer
Asset Artist	Game Producer	Quality Assurance Build Engineer
Audio Programmer	Game Programmer	Quality Assurance Game Tester
Character Artist	Game Publisher	Sound Designer
Concept Artist	Game Writer	Systems Designer
Creative Game Director	Gameplay Designer	Technical Artist
Educator/Trainer	Gameplay Engineer	Technical Animator
Engine Programmer	Gameplay Programmer	Texturing Artist
Environment Artist	Generalist Programmer	Tools Engineer
Esports Producer	Graphic Programmer	Video Game System Designer
Game Animator	Lead Game Designer	Virtual Reality Programmer
Game Artist	Level Designer	Visual Effects Artist
Game Audio Engineer	Music Composer	3D Modeling Artist

Common Internship Sites and Employers

Game Development majors often find internships and
employment in the following fields/industries.

- Business & Industry
- Colleges/Universities
- Consulting Firms
- Federal, State & Local Govts
- Game Development Companies
- Healthcare

- International Agencies
- Manufacturing
- Military
- Research & Development
- Telecommunications

Handshake

Handshake is the primary online resource
for preparing and connecting students and alumni with employers.
www.kutztown.edu/handshake

Useful Websites for Game Development Majors

Whether you are researching related career fields, applying for internships or jobs,
or planning to join a professional association, these websites are for you!

Industry/Employment Information

Computer Jobs
www.computerjobs.com

Dice
www.dice.com

IEEE
jobs.ieee.org

Game Development Careers
www.cgspectrum.com/career-pathways/
game-development

Game Developer Jobs
https://gamedevjobs.io

Gamasutra Jobs
https://jobs.gamasutra.com

Internet Society
www.internetsociety.org

Tech America
www.techamerica.org

LinkedIn Jobs
www.linkedin.com/jobs

Professional Associations

ACM SIGGRAPH
www.siggraph.org

American Institute of Graphic Arts
www.aiga.org

Digital Games Research Association (DiGRA)
www.digra.org/the-association

Entertainment Software Association (ESA)
www.theesa.com/about-esa

Instrumentation, Systems and Automation Society
www.isa.org

Institute of Electrical & Electronics Engineers
www.ieee.org (job postings too)

International Assoc. for Technology in Education
www.iste.org

World Organization of Webmasters
https://webprofessionals.org

Related Area Employers

Armstrong World Industries
Brentwood Industries
Burning Sky Games
Clark Associates
Computer Aid Inc
Fidelity Information Services
Gateway Ticketing
Hershey Entertainment & Resorts
Kutztown University
Lehigh Valley Health Network
LeverX
Liquid Interactive
Neo Pangea
Olympus
Penn Interactive
Penske
PPL Electric Utilities
SAP
Skyless Game Studios
St. Luke's University Health
        Network
UHS of Delaware, Inc.
Zulily

Building Your Resume for a Career in Game Development

Building a strong resume for your career field starts long before you ever start your job search. Employers want to hire graduates who not only have the necessary educational background but also have experience applying that knowledge.

George Game Development
ggame000@live.kutztown.edu, www.linkedin.com/in./george, 555-555-5555

PROFILE
Interested in working for a game development company as a Game Designer.

TECHNICAL COMPETENCIES
- Operating Systems: Windows, Linux
- Programming Languages: C++, Java, Python
- Web Languages: HTML, JQuery, PHP

QUALIFICATIONS
- Fluent in Spanish and English
- Experience communicating with diverse populations
- Strong interpersonal and problem-solving skills

> Learn more about your field and develop the necessary skills for employment by gaining hands-on experience through internships.

EDUCATION
B.S. Kutztown University of Pennsylvania — Kutztown, PA
Major: Game Development — Dec 20xx
GPA: 3.73
Dean's List — Fall 20xx-Spring 20xx

Related Courses: Game Design and Prototyping, Two- and Three-Dimensional Game Development, Intro to 3D Modeling and Rendering, Fundamentals of Game Development

INTERNSHIP & EXTERNSHIP EXPERIENCE
Amazon Corporate LLC — Allentown, PA
Game Designer Intern — Spring 20xx
- Wrote a character design document that outlines internship goals
- Worked with the animation team to design animation keys
- Assisted a programmer with creating functionality for game characters
- Integrated animations into the game engine and scripted gameplay

Student Extern — Sept 20xx
- Observed process of code development and troubleshooting techniques
- Attended "Tech Talk" focused on analysis and design for new applications

> Utilize summer breaks to acquire valuable experience via volunteer or employment opportunities related to your major.

RELATED EXPERIENCE
Kutztown University ResNet Helpdesk — Kutztown, PA
Student Support Staff Member — Fall 20xx-Present
- Assist with Adware/Spyware and Trojan removal
- Perform anti-virus installation, system updates and system restorations
- Complete troubleshooting tasks related to data recovery and printer/scanner issues
- Aide in security procedures such as student password changes
- Communicate effectively with ResNet staff and students

CAMPUS INVOLVEMENT & PROFESSIONAL DEVELOPMENT
Member, Kutztown Technology Association — Fall 20xx-Present
Member, Phi Kappa Phi National Honors Fraternity — Fall 20xx-Present
Member, American Computer Scientists Association (ACSA) — Fall 20xx-Present
Volunteer, Special Olympics, Kutztown University — Spring 20xx & 20xx
Recipient, Career Success Certificate, Kutztown University Career Development Center — Spring 20xx
Recipient, Career Exploration Certificate, Kutztown University Career Development Center — Fall 20xx

> Develop professionally through campus involvement and professional memberships. This illustrates responsibility, leadership abilities and time management skills.

WORK EXPERIENCE
Best Buy — Wyomissing, PA
Sales Consultant — Summers 20xx-20xx
- Answered technology-related inquiries regarding desktops, laptops and tablets
- Communicated with diverse staff to provide positive customer experience
- Resolved issues and complete customer returns