Computer Game Design

Certificate in Applied Science
Credit Requirements: 24 Semester Credit Hours

The Computer Game Design Certificate provides students with the skills to understand and apply computer game design and development concepts. Students are prepared for entry-level employment in game design and related fields. Topics covered include game programming fundamentals, game math and physics, 2-D and 3-D graphics, and animation.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Recommended Sequence of Courses
First Semester

CPT 102	Basic Computer Concepts	3
CPT 167	Introduction to Programming Logic	3
ARV 217	Computer Imagery	3
		Total 9

Second Semester

ARV 222	Computer Animation	3
ARV 247	3-D Animation III	3
CPT 187	Object-Oriented Logic and Design	3
		Total 9

Third Semester

ARV 225	Advanced Computer Animation	3
CPT 288	Computer Game Development	3
		Total 6

Computer Network Technician

Certificate in Applied Science
Credit Requirements: 27 Semester Credit Hours

This program prepares you for network technician jobs. It is designed for students who are employed in businesses that use or plan to use a computer network and need on-site primary support.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Recommended Sequence of Courses
First Semester

CPT 102	Basic Computer Concepts	3
IST 166	Network Fundamentals	3
IST 220	Data Communications	3
		Total 9

Second Semester

IST 161	Introduction to Network Administration	3
IST 190	Linux Essentials	3
IST 253	LAN Service and Support	3
		Total 9

Third Semester

IST 164	Implementing Windows Network Infrastructure Services	3
IST 165	Implementing and Administering Windows Directory Services	3
IST 191	Linux System Administration	3
		Total 9

Corporate Quality

Certificate in Applied Science
Credit Requirements: 24 Semester Credit Hours

This certificate program identifies the fundamentals of quality and management responsibilities in a total quality environment. This certificate also addresses statistical process control, manufacturing methods, cost-of-quality, corrective action procedures and auditing methods in both the manufacturing and service environments. This program provides students with the tools to better integrate and implement the principles and concepts of total quality in their work environment.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Recommended Sequence of Courses
First Semester – Fall

MGT 235	Production Management	3
QAT 101	Introduction to Quality Assurance	3
QAT 105	Total Quality Systems	3
		Total 9

Second Semester – Spring

QAT 110	Manufacturing Methods	3
QAT 201	Quality Cost Analysis/Auditing	3
QAT 240	Advanced Quality Concepts	3
		Total 9

Third Semester – Summer

QAT 232	Statistical Quality Control	3
QAT 245	ISO Standards and Auditing	3
		Total 6