

# SIMULATION TECHNOLOGY

65 credit AAS | 56 credit Diploma | 13 credit Certificate

## THE PROGRAM

Simulation Technology (Sim Tech) is an Associate in Applied Science (AAS) degree, 4-semester diploma, or 1-semester certificate. It prepares students for troubleshooting, repair, and maintenance of electronic and mechanical components of simulators used in pilot training, entertainment, and other applications. A career in Simulation Technology includes new challenges daily, including troubleshooting using test equipment and diagnostics, preventive maintenance, and working with hydraulic, pneumatic, electronic, and computer systems. Graduates learn how to maintain simulator systems for aviation, theme park rides, automobiles, trains, and space equipment. This is one of the few programs of its kind in the United States.

## WHAT STUDENTS WILL GAIN

- Skills in troubleshooting electronic and mechanical simulator systems
- Experience using diagnostic tools and test equipment
- Knowledge of preventive maintenance procedures
- Understanding of hydraulic, pneumatic, computer, and electronic systems
- Ability to repair and maintain complex simulation equipment
- Preparation for hands-on technical work in aviation, transportation, and entertainment simulation environments

## CAREER OUTCOMES

Graduates are prepared for technical careers supporting simulation systems used in aviation training, transportation industries, entertainment venues, and industrial training environments. Common roles include simulation technician, maintenance technician, and electronics or systems support positions responsible for installing, servicing, and maintaining complex simulation equipment.

## ADVISORS/TRIO & POWERSKILLS

TRiO & PowerSkills provide academic support for all students, including tutoring, advising, study support, testing/proctoring, and disability services.

## PROGRAM CONTACT

For questions about the Simulation Technology program at Lake Region State College, contact:

Richard Drury  
Associate Professor  
[Richard.D.Drury@lrsc.edu](mailto:Richard.D.Drury@lrsc.edu)  
701.662.1555

## STUDENT SUCCESS TIPS



Schedule time with your advisor each semester to stay on track with your degree plan.

Use tutoring and academic support services when needed to build skills in subjects like math.

Get involved at LRSC through clubs, activities, and campus events to build connections and get the most out of your experience.

Stay on top of financial aid requirements and important deadlines, and contact the Financial Aid Office with questions.

Over \$540,000 in scholarships is awarded to students each year. Complete the scholarship application on the LRSC website; one application applies to multiple scholarships, and awards are matched based on eligibility.

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First Semester	Credits	
AVIA 200: Ground School*	3	
AVIA 201: Introduction to Flight*	1	
CIS 128: Microcomputer Hardware I*	3	
ELEC 100: DC Analysis/Lab*	4	
ENGL 110: College Composition I	3	
MATH 103: College Algebra*	3	
Second Semester		
CIS 129: Microcomputer Hardware II*	3	
CIS 255: Computer & Network Security*	3	
ELEC 101: AC Analysis/Lab*	4	
ENGL 120: College Composition II <b>OR</b> ENGL 125: Intro to Professional Writing	3	
HPER 210: First Aid*	2	
General Education: Humanities/Social Science	3	
ENGL 105: Technical Communications or higher needed ( <i>Diploma only</i> )*	3	
COOP 197: Cooperative Education ( <i>Certificate only</i> )*	3	
Third Semester		
CIS 224: Networking I*	3	
ELEC 272: Introduction to Simulation*+ <i>also available for the Spring semester in the Certificate program</i>	3	
ELEC 281: Digital Integrates Circuits/Lab*	4	
ELEC 284: Semi-Conductor Devices/Lab*	4	
General Education: Humanities/Social Science	3	
Fourth Semester		
CIS 220: Operating Systems - Unix*	3	
ELEC 275: Visual Systems/Graphics*+	2	
ELEC 282: Technical Simulation*+	3	
ELEC 283: Simulator Systems*+	2	
COOP 197: Cooperative Education* <b>OR</b> ELEC 285: Electronics Circuits*	3	
Summer Session Electives		
COOP 197: Cooperative Education*	3	
COOP 198: Cooperative Education*	3	
	<b>Total AAS Credits</b>	<b>65</b>
	<b>Diploma Credits</b>	<b>56</b>
	<b>Certificate Credits</b>	<b>13</b>

\*Diploma credits  
+Certificate credits