

Associate in Science in Natural Science

with a concentration in

Information & Computer Science

About the Major

This major is a pathway to Bachelor of Science degree programs in Information and Computer Science at four-year universities such as the University of Hawai'i at Mānoa and University of Hawai'i at Hilo.

Studying in this major will provide you with the knowledge and skills for entry-level employment, but because a four-year degree will lead to career opportunities with higher pay and advancement potential, this major is designed to prepare you for transfer. With planning, you could earn this degree and transfer with up to two years of your four-year degree complete, saving you time and money.

Gain Knowledge and Skills

This major focuses on problem-solving, algorithm development, implementation, and testing using programming languages such as Java, C++, and C. You will take introductory computer science, calculus, science, and other general education coursework. You will also have the opportunity to participate in hands-on learning, research, and mentoring experiences.

Career Opportunities

Software development is essential to the study of computer science but it is only one aspect. Some exciting areas in computer science include artificial

intelligence and machine learning, cybersecurity, digital currency, big data analytics, and data visualization. We cannot even begin to imagine all the ways computer scientists will shape our future

Employment in computer occupations will grow by nearly half a million new jobs from 2014 - 2024, far more than any other STEM group, according to the U.S. Bureau of Labor Statistics.

It is well worth the time and effort to commit to this major. Here are just a few examples of occupational titles and salaries.

Hawai'i Salaries	Entry	Average	Experienced
Software Developer, Applications	\$54,309	\$79,997	\$125,403
Software Developer, Systems Software	\$49,192	\$91,250	\$142,979
Database Administrator	\$56,139	\$91,499	\$127,026
Information Security Analyst	\$53,373	\$86,715	\$128,877
Computer Network Architect	\$61,235	\$93,434	\$152,360
Computer and Information Systems Manager	\$81,765	\$118,165	\$173,139

For more information, visit Hawai'i Career Explorer at <http://uhcc.hawaii.edu/workforce/index.php>

Resources

Association for Computer Machinery: <https://www.acm.org>

IEEE Computer Society: <https://www.computer.org>



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