



Science, Technology, Engineering, and Math

Career Information Session





Spotlight on:

Automotive Technology

Environmental Sciences

Recycling and Resource Management

Sustainability Systems & Technology (noncredit)



Automotive Technology



About the Automotive Technology Program

Automotive Tech students will get hands-on training and learn high tech skills on the latest vehicles and technologies at Santa Monica College. You will have an opportunity to apply basic diagnostic techniques, maintenance procedures, and repair skills to automotive, electrical, braking and suspension, and steering systems.

In addition you will learn how to troubleshoot and repair electronic, mechanical and hybrid-electric vehicles and gain an understanding of alternative fuels and other emerging technologies and how each performs as potential solutions to transportation-related energy and air pollution problems.



Degrees and Certificates

Degrees and Certificates

Department Certificate – Automotive Technician, Introductory



Academic Planning

For information on this program, assistance creating your educational plan, or exploring transfer preparation visit the SMC Counseling Center at:

- <http://www.smc.edu/student-services/counseling/pages/contact-hours.aspx>

Once on the web page, you can make an appointment or see a counselor on a drop-in basis by clicking on:

- The General Counseling & Transfer Services link or;
- The link to any special programs that you are a member of



Potential Career Options

Job Title	Typical Education	Median Wage
Automotive Engineering Tech.	Associates Degrees	\$66,438
Automotive Body and Related Repairers	High School Diploma or more	\$34,059
Automotive Master Mechanics	Certificate	\$35,298
Automotive Specialty Tech.	Certificate	\$35,298
First-Line Supervisors of Mechanics, Installers, and Repairers	High School Diploma or More	\$73,483

For additional career ideas and current salary information, we encourage you reach out to an SMC Career Counselor at the Career Services Center. They can be reached at (310) 434-4337.



Starter Class

- **AUTO 40, Automotive Maintenance and Operation**
This course is an introductory course dealing with the maintenance and operation of the modern automobile. The course familiarizes the student with career opportunities in the automotive industry. Also covered are tools and equipment and safe working practices in the automotive industry.



Campus Resources

- **Automotive Technology (Offered through the Business Department)**
 - **Website:** <http://smc.edu/academicprograms/businessdepartment/pages/automotive-technology.aspx>
 - **Contact Information:**
Phone: (310) 434-4295
- **Career Services Center**
 - **Website:** <http://smc.edu/careercenter>
 - **Contact Information:**
Email: careerservices@smc.edu
Phone: (310) 434-4337



Environmental Sciences



About the Environmental Sciences Program

Environmental Science is an interdisciplinary and multidisciplinary course of study that presents an overview of ecological issues from a scientific perspective. With a broad foundation across the natural sciences, the coursework examines the interrelated nature of environmental and social systems. This program is designed to equip students with the skills and tools to successfully use the scientific method while studying and solving environmental problems.



Degrees and Certificates

Degrees and Certificates

Associates of Arts Degree (AA) – Environmental Sciences

Certificate of Achievement – Environmental Sciences

Many colleges/universities offer bachelor's degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has agreements with UC and CSU campuses, as well as several private and out-of-state institutions.



Academic Planning

For information on the program, assistance creating your educational plan, or exploring options make an appointment with a STEM Counselor:

- <http://www.smc.edu/student-services/counseling/pages/contact-hours.aspx>

There are different counselors and programs available to serve all needs. We recommend that you see a STEM counselor in addition to other special programs you are a member of. Once on the web page, to schedule an appointment, select the STEM Counseling button.



STEM



Potential Career Options

Job Title	Typical Education	Median Wage
Chief Sustainability Officers	Bachelor's Degree	\$180,422
Toxicologist	Bachelors or Masters	78,961
Water Quality Specialist/Expert	Bachelors	85,243
Environmental Lawyer	Bachelor's of Law (LLB) or JD	115,510
Environmental Compliance Inspector	Bachelor's Degree	\$82,240
Forest and Conservation Tech.	Associate Degree	\$40,863
Park Naturalists	Bachelor's Degree	\$69,797



Starter Class

BIO 10: Applied Ecology and Conservation Biology

This course introduces students to basic concepts of biology through the study of evolution, ecology, and conservation biology. The course is designed for both major and non-major environmental science students. It is intended both as preparation for upper division Environmental Science classes, but also as general education for all students interested in a more in-depth understanding of current biological and environmental issues. By the end of the course, students should be able to use scientifically sound information to critically analyze complex environmental issues from around the world. Students will gather and analyze basic research data and apply the scientific method to conservation-related projects. Laboratory experiences are integrated and stress scientific methodology and thinking.



Program Highlights

We will go over the program highlights and resources at the end of the presentation.



Primary Academic Departments

- **Earth Sciences** (*Anthropology, Astronomy, Geography, Geology, and Sustainable Technologies*)

Website: <http://www.smc.edu/academicprograms/earthscience/pages/default.aspx>

Phone: (310) 434-4767

- **Life Sciences** (Biological Sciences, Environmental Science, General Science and Nutrition and Dietetics)

Website: <http://www.smc.edu/academicprograms/lifesciences/pages/default.aspx>

Phone: (310) 434-4788

- **Physical Sciences** (Chemistry, Engineering, General Science and Physics)

Website: <http://www.smc.edu/academicprograms/physicalsciences/pages/default.aspx>

Phone: (310) 434-4788



Career Services Center

Career Services Center

Website: <http://smc.edu/careercenter>

Contact Information:

Email: careerservices@smc.edu

Phone: (310) 434-4337



Recycling & Resource Management



Degrees and Certificates

Degrees and Certificates

Associate of Science/Arts Degree (AS/AA) – Recycling and Resource Management

Certificate of Achievement – Recycling and Resource Management

Department Certificate – Recycling and Resource Management



Academic Planning

For information on the program, assistance creating your educational plan, or exploring options make an appointment with a STEM Counselor:

- <http://www.smc.edu/student-services/counseling/pages/contact-hours.aspx>

There are different counselors and programs available to serve all needs. We recommend that you see a STEM counselor in addition to other special programs you are a member of. Once on the web page, to schedule an appointment, select the STEM Counseling button.



STEM



Potential Career Options

Job Title	Typical Education	Median Wage
Recycling Coordinators	High School Diploma and More	\$53,280
Soil and Water Conservationist	Bachelor's Degree	\$71,171

For additional career ideas and current salary information, we encourage you reach out to an SMC Career Counselor at the Career Services Center. They can be reached at (310) 434-4337.



Program Highlights

Program highlights and resources will be discussed at the end of the presentation.



Campus Resources

- **Sustainable Technologies**
 - **Website:** www.smc.edu/stp
 - **Contact Information:**
Phone: (310) 434-8721

- **Career Services**
 - **Website:** <http://smc.edu/careercenter>
 - **Contact Information:**
Email: careerservices@smc.edu
Phone: (310) 434-4337



Sustainability Systems & Technologies (noncredit)



Noncredit Certificates of Completion

Certificates

Certificate of Completion – Sustainability in Organics Aide

Certificate of Completion – Sustainability Assistant

Certificate of Completion – Sustainability Services Technician

For more information on these noncredit programs and eligibility requirements, visit <http://www.smc.edu/AcademicAffairs/Noncredit/Pages/Noncredit-Registration-and-Enrollment.aspx>



Academic Planning

For information on the program, assistance creating your educational plan, or exploring options make an appointment with a Noncredit Counselor:

- <http://www.smc.edu/student-services/counseling/pages/contact-hours.aspx>

There are different counselors and programs available to serve all needs. Once on the web page, to schedule an appointment, select the Noncredit Program Counseling button.



**Noncredit Program
Counseling**



Potential Career Options

Job Title	Typical Education	Median Wage
Garden Aide	High School Diploma	\$38,400
Solid Waste Equipment Operator	High School Diploma	\$44,160
Materials Recovery Technician	High School Diploma	\$40,000
Sustainability Outreach Specialist	High School Diploma	\$35,000
Sustainability Management Assistant	High School Diploma	\$35,000



Program Highlights

Program highlights and resources will be discussed at the end of the presentation.



Campus Resources

- **Sustainability Systems and Technology (SST)**
 - **Website:** www.smc.edu/sst
 - **Contact Information:**
Phone: (310) 434-8721

- **Noncredit Program (Office Located on Bundy Campus)**
 - **Website:** www.smc.edu/noncredit
 - **Contact Information:**
Phone: (310) 434-3399



Program Highlights & Resources



Program Highlights

- **Sustainability Week At SMC**

In October, SMC's Center for Environmental and Urban Studies and multiple environmental clubs pulled together a week of events promoting and educating students on environmental issues ranging from organic eating, carbon footprint, and reducing the use of plastic.



Program Highlights

- **Fall Cool Careers Speakers' Forum**

- Every November, The Energy Efficiency Program participates in the SMC Cool Career Speakers Program
- Over 100+ Industry Professionals from a myriad of career fields share a wealth of knowledge, relevant skill sets and vital career information that help SMC students learn how to succeed in any industry.
- For more information on the annual Fall Cool Careers Speakers' Forum, please contact the Career Services Center in October or visit <http://smc.edu/careercenter>.



Program Highlights

- **Center for Environmental and Urban Studies (CEUS)**
Living laboratory for sustainability. Home for student environmental clubs and campus committees working on sustainability initiatives and research
www.smc.edu/ceus
- **Sustainable Works**
Nonprofit housed at the CEUS that offers programs and free student sustainability workshops addressing issues and solutions related to water, energy, waste, chemicals, transportation, shopping and food
www.smc.edu/sustainableworks
- **Organic Learning Garden**
Participate in practical learning, to grow your own food, to exercise sustainability, and to better understand food systems and the impact they have on our planet, bodies, and culture.
www.smc.edu/garden



Program Highlights

- **David Sliff Memorial Foundation and Tom Ivener Sustainability Scholarships**
Students apply to all scholarships in October through one application due December 31
<http://www.smc.edu/enrollmentdevelopment/financial/scholarships/pages/how-to-apply.aspx>
- **Global Citizenship Symposium**
Every year students are invited to present their work investigating and celebrating ideas and practices of global citizenship and its annual theme. Students with the best examples receive scholarships as well as campus-wide recognition for their achievements.
<http://www.smc.edu/globalcitizenship/events/pages/symposium.aspx>
- **Green Screen Lecture Series**
Free film screenings and talks on the environment and transformation
www.smc.edu/lectures




Student Clubs

- **Office of Student Life - Student Clubs (www.smc.edu/icc)**
 - **Club Grow**
Manages the Organic Learning Garden on campus and teaches students how to grow their own food; For more information, contact smc.clubgrow@gmail.com
 - **SMC Bike Club**
Build campus bike culture; teach repair and safety skills, lead group rides, repair student bikes and support bike initiatives; For more information, contact smcollegebike@gmail.com
 - **Eco Action Club**
Raise awareness about sustainability issues on campus; host events and perform environmental research projects; For more information, contact ecoaction.club.smc@gmail.com



Student Clubs (continued 1)

- **Office of Student Life - Student Clubs (www.smc.edu/icc)**
 - **Natural History Club**
Helps promote sound environmental practice and conservation of wild places.
For more information, contact: smcnaturalhistory@gmail.com
 - **Plastic Free SMC**
Eliminate unnecessary plastic use.
For more information, contact: PlacticFreeSMC@gmail.com



Don't forget to explore the additional videos on Programs and Careers in STEM

- **Astronomy**
- **Geography**
- **Geology**
- **Math**
- **Physics**
- **Engineering**
- **Chemistry**
- **Biological Science**
- **General Science**
- **Computer Science**
- **Computer Programming**
- **Cyber Security, Networking**
- **Cloud Computing, Web and Mobile Development**