

*Education for a sustainable world*

## COURSE OFFERINGS

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The following related courses are currently offered at Appalachian

1. **Renewable Electricity**
2. **Sustainable Building Design & Construction**
3. **Solar Thermal Technology**
4. **Contemporary Problems in Appropriate Technology**
5. **Sustainable Transportation**
6. **Sustainable Resource Management**
7. **Environmental Physics**
8. **Introduction to Sustainable Development**
9. **Society & Technology**
10. **Environmental Economics**
11. **Intro to Agroecology**
12. **Building Science**
13. **Sustainable Development**



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APPROPRIATE  
TECHNOLOGY

APPALACHIAN STATE  
UNIVERSITY

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*Future Solutions Now*

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# APPROPRIATE TECHNOLOGY & APPALACHIAN STATE UNIVERSITY

The Appropriate Technology (AT) concentration has been a program area in the Technology Department of Appalachian State University for 17 years and for an additional 6 years it was known as Earth Studies in the Interdisciplinary Studies Department. It is currently the only program of it's kind in the country and is likely the oldest continuing operating university program for the study of Appropriate Technology in the United States. It offers both undergraduate and graduate students a broad education in many technical areas. These include: wood & metal working, construction, drafting & design, manufacturing, computers, photography, graphic arts, ceramics & electronics. In addition to a strong technical foundation, students develop an in depth understanding of solar, wind & hydro power, green building, sustainable transportation & resource management, and organic agriculture. "Hands on" activities are emphasized.

## AT PROGRAM OFFERINGS

1. Bachelor of Science in Technology with concentration in Appropriate Technology
2. Undergraduate minor in Appropriate Technology
3. Master of Arts in Appropriate Technology
4. Non-credit workshops

## SUSTAINABLE DEVELOPMENT PROGRAM

Working with Appalachian's Appropriate Technology is an interdisciplinary Sustainable Development Program. Currently the Sustainable Development program offers a minor. Related courses are being developed and taught in all areas of the University. These include environmental physics, environmental biology, environmental economics, ecology, agroecology, environmental applied geology, geography and planning courses and many others.

## INTERESTED IN HELPING?

We are always trying to improve the quality of our educational programs. This is a very dynamic field and we want to stay abreast of new technical developments and offer our students the opportunity to work with the newest and best equipment available. If you can help us with a financial contribution we would greatly appreciate it. Call (828) 262-3111 for more information.

## R&D ACTIVITIES

The Appropriate Technology Program is involved in a variety of research activities. These include: solar water heating, solar food and lumber drying, solar ovens, wind & hydro power, solar water distillation & pasteurization, greenhouse design, composting & alternative transportation technology. We are actively involved in designing, building & evaluating these technologies. Our goals are to systematically perfect them and to facilitate their widespread adoption. We share our work with many audiences through publications, workshops and in the classes we offer.

## APPALACHIAN SOLAR CLUB

One of the most active student organizations on campus is the Appalachian Solar Club. This club is affiliated with the country's largest solar organization, the American Solar Energy Society (ASES). Club members sponsor, organize & conduct a very successful solar home tour each year. They also offer a free workshop on some aspect of Appropriate Technology every Monday night during the academic school year and have been active introducing renewable energy into the public schools in western North Carolina. Club members are able to attend the national ASES conference each year at a discounted price and also have the opportunity to meet leaders in the field of renewable energy; making valuable contacts for internships or employment.

## CAREER OPPORTUNITIES

The wind and photovoltaic industries are two of the world's fastest growing industries with annual growth exceeding 20%. Many job opportunities can be found in these and related industries.