

# Program Goals

1. To develop general education courses and graduate programs that will enhance the knowledge of sustainable science, develop skills in the natural and social sciences that will aid students in approaching real world situations and enable them to think of innovations in technology and/or in government policies for a sustainable society.
2. Develop research topics and support research projects for sustainable development including those focusing on biodiversity, alternative energy sources, risk assessment and others.
3. Instil public awareness starting from our university to the community level.
4. Establishment of networks and support systems with institutions within the country and overseas.



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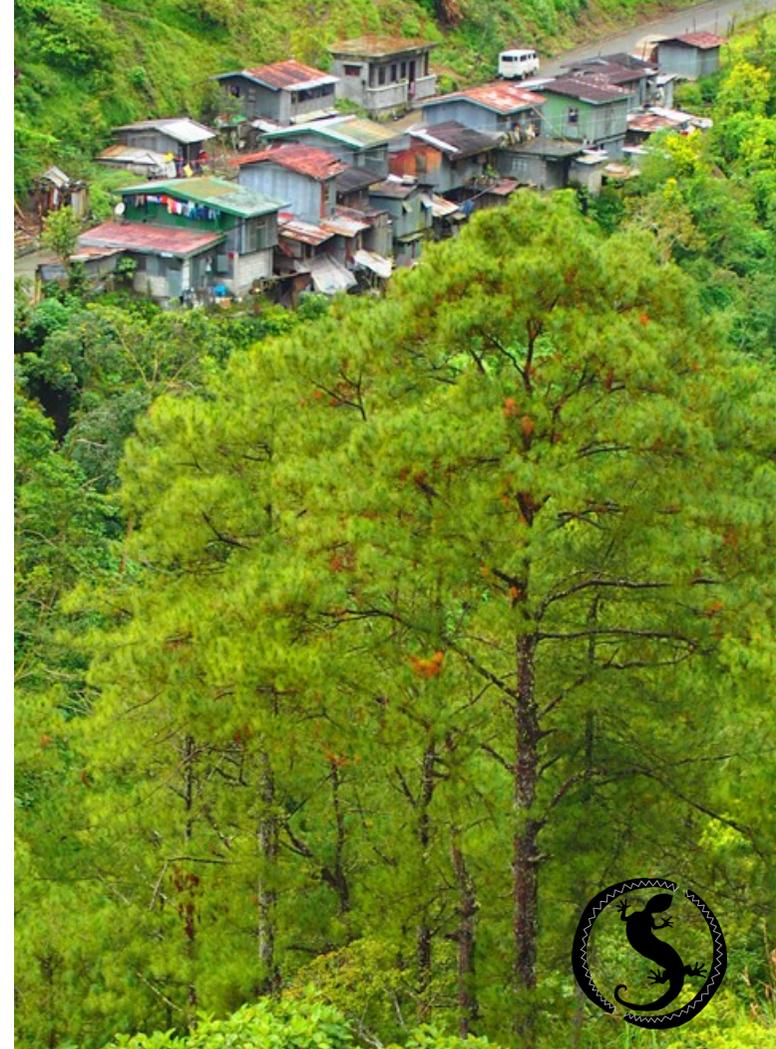
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Program for

## SUSTAINABILITY SCIENCE



**Cordillera Studies Center**  
UNIVERSITY OF THE PHILIPPINES BAGUIO

# Background and Rationale

Science and technology for sustainable development has long been recognized by the academe and is beginning to be utilized in some areas. However, this recognition must be expanded and brought to the attention of our law makers, government agencies and, more importantly, to each individual in our community. Everyone must be made aware of their responsibility to conserve the limited resources provided by Mother Earth and of the consequences of not owning up to that responsibility. More importantly, we must comprehend that our actions, no matter how small, have long term effects. As a society, we must begin to see things in the large-scale and on a long-term basis.



## What is sustainability science?

Although there is no precise definition to sustainability science, we are aware that its origin can be traced to basic human needs – food and shelter. The need to survive and subsist brings us to use natural resources that are available to us. As the human population grows, more and more of these resources are used. The focus of sustainability science is on the dynamic interactions between nature and society. The challenge of sustainable development is the reconciliation of society's development goals with the planet's environmental limits over the long term (Clark and Dickson 2003).

# What areas of research may be found under sustainability science?

## Education

Teaching sustainability science must begin with the idea that, sooner or later, everything will run out, that a balance can be attained when, simply put, what we use, we give back, and that growth is can be achieved when we give back more than what we take. The dissemination of this information and technology must be coursed through government agencies and institutions in order to inform policy in education and beyond.

## Social Science

Through time, we have become aware that research in the natural science goes hand in hand with social behaviour. Human behaviour governs the utilization of natural resources. By studying human behaviour and determining specific human needs, we may alleviate the demand for the Earth's natural resources, refocus our attention towards its management, and turn to alternative sources of energy.

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### Works cited:

Clark, W. C. and Dickson, N. M. (2003) Sustainability science: The emerging research program. *Proceedings of the National Academy of Sciences*, 100, 8059-8061.

## Natural Sciences

Research in the natural sciences involves renewable sources of energy (such as solar, wind, ocean and mechanical), energy for and from recycling wastes, recycling technology, and risk reduction and management.

## Program Head

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