

MASTER OF SCIENCE IN ENVIRONMENTAL AND RESOURCE MANAGEMENT

FACULTY OF SOCIAL SCIENCES



PROFILE

Exploiting natural and environmental resources, such as fossil fuels, minerals, fish, forests, land or the atmosphere, is inherently problematic. Most resources do not belong to anyone, yet their use affects many people – often adversely. Man's pursuit of technology, wealth and a high quality of life means that precious resources are repeatedly mismanaged. And while policy makers attempt to limit damage, the long-term solution is more complex.

Thanks to developments in natural science and technology, there are numerous ways of exploiting resources to enable people to enjoy a comfortable lifestyle with ample choice of products and services. The choices people make daily directly affect the availability and quality of the environment in which they live. Exploiting resources almost always pollutes air, water or land – with lasting consequences for plants and animals. That is why today there is increasing focus in science and technology to find new ways of preventing damage for the benefit of future generations. By examining human behaviour and social science, we can understand why people, businesses and societies make certain choices about their use of resources. This is important because these choices have far-reaching implications for everyone, not just the decision-makers. Politicians often attempt to limit further damage in response to poor management. But these attempts are often so specific that they have little enduring effect. The only way to tackle environmental mismanagement in the long-term is through continuous research and cooperation across disciplines. For example, while engineers may invent new technology to prevent damage,

different specialists are required to find the best way to implement the technical solution. Social scientists experts in human behaviour, establish how to make the technology work for man and the environment. Hence, knowledge of both technology and social science is crucial in developing lasting and efficient solutions to today's complex resource and environmental management problems.

PROGRAM OBJECTIVES

The programme is designed to join two broad traditions, on the one hand science and technology, which identifies problems and opportunities and generates solutions and on the other hand social science, which identifies actors, their behaviour and ways of modifying them.

PROSPECTIVE STUDENTS

The M.Sc. study programme is designed to appeal to graduates from a wide range of backgrounds, including environmental science and management, planning, social science, geography, natural science, biology, earth science, technology and engineering. Students are expected to be able to explore both social science and technology. Numeric literacy and previous experience with quantitative data and models are an advantage. Depending on their level of expertise in these areas, some students may be required to complete an induction course.

CAREER PROSPECTS

Graduates are well equipped for a career in business, consultancy, national and international organisations, and in local, national and international government. The study programme emphasises both policy

formation and management of existing policies and frameworks.

INSTITUTIONAL FOUNDATION

While the study programme is managed by the University of Southern Denmark (SDU), half of the classes are delivered by the Aalborg University Esbjerg (AAUE). SDU is responsible for classes relating to social science, economy and management, while AAUE deals with project work and skill development relating to engineering, technology and natural science. Both universities supply supervisors for projects. Students can have a supervisor from both universities for their dissertation project.

The study programme builds on skills students have learnt in their undergraduate degree. It consists of eight quarters and normally lasts two years. Each quarter, students take courses and/or projects before sitting an exam. The fifth and sixth quarter consists of mostly elective courses, enabling students to study at another university or gain work experience.



STRUCTURE

Examples of ELECTIVES

- Strategic Environmental Management of Business (7,5 ECTS)
- Environment and Development (7,5 ECTS)
- Corporate Social Responsibility: Strategy and Practice (7,5 ECTS)
- Nature of Climate Change (3,75 ECTS)
- Water Management (7,5 ECTS)
- Global health Problems and Institutions (7,5 ECTS)
- Biomass/Bioenergy (7,5 ECTS)
- Biorefinery Design (7,5 ECTS)

- Philosophy of Science and History of Technology (7,5 ECTS)

ENTRY REQUIREMENTS:

B.Sc. in Environmental Planning and management or from a similar background. Numeric literacy and previous experience with quantitative data and models are an advantage.

LANGUAGE REQUIREMENTS

A good standard of English is required because teaching at the University typically involves student participation, class discussion and student presentations. A minimum

IELTS score of 6.5 or a TOEFL score of 575/230/88 is required. Note that some studies only accept the IELTS test. If you as an EU/EEA citizen can document this level of English by way of secondary school diploma, a TOEFL or an IELTS test is not required (with a few exceptions).

PLEASE NOTE: The University of Southern Denmark has access to the IELTS Verification Service; therefore we accept the IELTS test results/score in copy. TOEFL is only accepted in original sent directly from the test centre or the educational testing service (ETS) before registration deadline.

PROGRAMME OVERVIEW

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| 1 | Research Forum (3,75 ECTS) | Environmental Chemistry (3,75 ECTS) | Sustainability (7,5 ECTS) |
| 2 | Resource Characterization & Conversion Technologies and Resources (7,5 ECTS) | | Project Management (7,5 ECTS) |
| 3 | Chemometrics Process Characterization and Process Sampling (7,5 ECTS) | | Holistic Design for Sustainability: Systems, Processes and Products (7,5 ECTS) |
| 4 | Innovation Management (7,5 ECTS) | | Advanced Environmental and Resource Economics and Management (7,5 ECTS) |
| 5/6/8 | Alternative 1: 30 ECTS from a combination of project courses, study courses and projects Alternative 2: 30 ECTS from courses taken at another university Alternative 3: 10 ECTS from a combination of project courses, study courses and projects, 20 ECTS from reporting on time spend in practice | | |
| 7/8 | Dissertation (Master's thesis) (30 ECTS) | | |

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| TUITION FEES | <p><i>Exchange Students:</i> For students participating in an exchange programme - tuition fees will not be charged. <i>Not participating in an exchange programme:</i> For students not participating in an exchange programme or in a bilateral agreement, tuition fees will be charged if you are not a citizen in Europe or in a country of the European Monetary Union.</p> <p>Full Master's Degree (2 years) (120 ECTS) EUR 17,000.</p> | REGISTRATION DEAD LINES | <p>Study starting 1 September: EU/EEA citizens 1 May Non-EU/EEA citizens 1 March</p> | FURTHER INFORMATION | <p>University of Southern Denmark, Esbjerg</p> <p>The International Office Niels Bohrs Vej 9-10 DK-6700 Esbjerg</p> <p>Phone: +45 6550 1502 Fax: +45 6550 1550</p> <p>SDU homepage: www.sdu.dk Faculty homepage: www.sam.sdu.dk E-mail: int@sdu.dk</p> |
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