


# Samfunnsøkonomi og bærekraft (M-ECON)

REDIGERT

 Studienivå: Mastergrad iht §3, 2 år (580)

 Sted: 192.95.00.00 Handelshøyskolen

## Faget er viktig for samfunnet fordi:

### Bokmål

Viktige tema innen samfunnsøkonomi er hvordan knappe ressurser, som naturressurser, arbeidskraft, teknologi og produksjonsutstyr, blir brukt på ulike vis for å tilfredsstille menneskelige behov gjennom produksjon av varer og tjenester. Studiet tar opp hvordan og hvorfor produksjon og forbruk organiseres forskjellig i ulike land til ulike tider. Samfunnsøkonomien ser også på hvordan ressurser blir fordelt mellom grupper og individer, og hvordan myndighetene påvirker produksjon, forbruk og fordeling.

### Engelsk

Modern economies are characterized by complexity, interconnectedness, and the exposure to rapid changes, which can originate domestically or internationally. Decision- and policymakers in both the private and public sectors require an ever-greater information and data base to assist them in responding to the challenges and opportunities that confront them. The theoretical and methodological foundation of an economist equips them to address real-world problems. The master's program in Applied Economics and Sustainability provides comprehensive training in economic theory and quantitative analysis, and exposes the student to topics in sustainability, approaches, and methods that enable them to conduct economic and/or market analysis at the macroeconomic, sectoral and the firm or household level. The program also qualifies candidates for further studies as the doctoral level.

## Hva kan man bli?

### Bokmål

En utdanning i samfunnsøkonomi gir gode arbeidsmuligheter både i offentlig og privat sektor. Typiske oppgaver i det offentlige er planlegging, overvåking av økonomiens virkemåte og utredning av samfunnsmessige konsekvenser av offentlige tiltak. Typiske oppgaver i det private er prognoser for makroøkonomisk utvikling (sysselsetting, prisstigning, rente, valutakurs), utredning for banker, andre bedrifter og organisasjoner, bl.a. analyser av utviklingen i spesielle sektorer eller markeder. Det jobber også mange samfunnsøkonomer i internasjonale organisasjoner, hvor aktuelle arbeidsområder er handel, globalisering og bistand. Studiet kvalifiserer også for opptak til doktorgradstudier (PhD) i økonomi.

### Engelsk

A master's degree in economics provides excellent employment opportunities in the private or public sector working as analysts, consultants, or advisors. The typical tasks include monitoring, researching, analyzing, reporting, interpreting, and presenting results related to the study of economic changes, policy responses to those changes, or shifts in policy direction. These tasks can involve studying macroeconomic developments (e.g., indicators such as employment, inflation, interest rates and exchange rates) or microeconomic sectoral developments, particularly in sensitive areas of the economy (e.g., petroleum, gas, and energy markets, agriculture, fisheries, banking and finance, etc.). By performing these tasks, the economist is often called upon to share insights by preparing policy briefs or talking points for directors and making recommendations to decisionmakers. In the public sector, an economist can also be called upon to assess the social impacts of government measures for policy formulation. In international organizations (multilateral or non-government organizations) where foreign policy or international relations are concerned, there is also a role for the economist. In such organizations, the relevant fields of work address issues related to globalization (trade in goods and services, and the cross-border movement of labor and capital), economic development and growth, economic cooperation and aid assistance programs, and related policy analysis. The program also qualifies for admission to doctoral studies (PhD) in economics or related fields.

## Til vitnemål og DS - Målsetting, innhold og organisering

### Bokmål

### Engelsk

#### Objectives, content and organization of the study program

The master's program in Applied Economics and Sustainability provides an in-depth study of economic theory and quantitative methods, equipping the student to address real-world problems with sustainability as a guiding principle. The required courses provide students with a solid theoretical foundation that is coupled with training in data analysis, econometrics, and impact assessment methods. Students have the flexibility to choose from among structured specializations or they can tailor their program to include courses from other faculties to suit their inter-disciplinary interests. The submission of a master's thesis that demonstrates their knowledge of economic theory and quantitative analytical skills concludes the program. The student presents and independently defends the thesis.

In addition to lectures, the courses include exercises, computer lab work, case studies, semester projects and presentations that are done individually or in groups to promote class participation and active learning. These assignments strengthen students' analytical and methodological skills and aim at reinforcing academic integrity. In teaching, economic theory, modelling frameworks and exposure to the relevant literature are applied in the analysis of historical and contemporary issues. Academic discussions are an integral part of the learning process.

# Kunnskap, ferdigheter og kompetanse etter utdanningen

## Bokmål

### Engelsk

#### Learning outcomes

A candidate who has completed his or her qualification should have the following learning outcomes:

#### *An economic mindset:*

- Has advanced theoretical foundation in economics, particularly in producer and consumer behaviour, market structure and analysis, and uncertainty;
- Has the aptitude to consult independently the economics literature to apply theory and reasoning when conducting qualitative and quantitative analysis to understand causal relationships, correlations, and the link between theory and empirical results;
- Is able to assemble economic datasets to analyse and interpret trends to present to management and colleagues;
- Has in-depth knowledge and understanding of methods of analysis among survey design and econometric modelling to analyse economic data, with the proficiency to interpret and report results and communicate insights, through written and oral presentation, to specialists in the field, decision makers in business, policy makers in government and to society at large.

#### *Equipped to address real-world problems with sustainability as a guiding principle:*

- Can identify contemporary problems to formulate researchable questions by which to analyse microeconomic behaviour of individual agents and markets, and macroeconomic phenomena;
- Is able to formulate researchable questions that links understanding of economy theory with its relevance for natural and environmental sciences, other social science, development studies, finance and commodity market analysis, or food and agricultural sciences; and
- Has an acute awareness of how economic sustainability involves understanding trade-offs and opportunity costs in production, consumption, resource use and the government's role in defining societal targets.

#### *Social skills that prepare graduate to work collegially with consciousness and integrity:*

- Can conduct economic analysis in accordance with ethical guidelines for research, understanding the limitations of their data, and the constraints of their modelling construct and underlying assumptions; and
- Can work independently, or with direct responsibility to a diverse multicultural team, through their ability to organize, plan and conduct their assigned tasks within a given deadline.

## Innhold og oppbygging

### Bokmål

Studiet består av totalt 120 studiepoeng, der den avsluttende masteroppgaven utgjør 30 studiepoeng. De obligatoriske emnene i programmet utgjør totalt 55 studiepoeng og omfatter matematikk for økonomer, mikroøkonomi, økonometri, makroøkonomi, forskningsmetode, skatter, ulikheter og bærekraft, økonomi og bærekraft. I tillegg vil hver enkel spesialisering inneholde noen obligatoriske emner som studentene må igjennom for å få den aktuelle spesialiseringen på studiet. Det siste semesteret benyttes til å skrive masteroppgaven.

### Engelsk

The master's degree consists of 120 credits, including a 30-credit master's thesis. The compulsory courses amount to 55 credits and include: mathematics for economists; economic theory (micro and macroeconomics); quantitative analysis (data analysis, econometrics; and impact assessment); taxes, inequality and sustainability; economics of sustainability; and research methods. The specializations include core courses and electives that complete the student's academic profile. A general studies option provides flexibility for students to tailor their own program, taking economics or business across specializations and pursuing interdisciplinary studies by taking courses offered in other faculties.

## Læringsaktiviteter

### Bokmål

Studiet bygger på en kombinasjon av forelesninger, seminarer og selvstendig arbeid med oppgaver. Innslaget av større, selvstendig oppgavearbeid er betydelig. Undervisningen er basert på både tradisjonelle teorier og aktuelle forskningsresultater og samfunnsaktuelle problemstillinger. Faglige diskusjoner blir dermed en viktig del av den faglige formidlingen. Den avsluttende masteroppgaven er et selvstendig forskningsarbeid utført under akademisk veiledning.

### Engelsk

The coursework involves a combination of lectures, seminars, and independent or group work on exercises. There is considerable use of independent study and semester assignments such as case studies, papers or semester projects requiring presentation and/or a final defense. Teaching is based on traditional theories, up-to-date research and issues of current interest. Academic discussions make up an important part of the learning experience. The master's thesis is a student-driven research task on a problem selected by the student, carried out under faculty supervision with regular feedback and guidance. After submission of the written thesis, the student must present and orally defend the work.

## Vurderingsform

### Bokmål

Studentene blir evaluert gjennom oppgaveevaluering, muntlige presentasjoner og skriftlige og muntlige eksamener. På masternivå er evnen til å strukturere komplekse problemstillinger og evnen til faglig forankret problemløsning sentral.

### Engelsk

Students are assessed throughout the learning process (assignments requiring discussions and feedback and oral presentations) and by final oral and written examinations. The ability to structure complex problems and a scientific approach to problem solving are important assessment criteria.

## Opptakskrav

### Bokmål

Søkere med bachelorgrad innen samfunnsøkonomi eller tilsvarende fag. Graden må inneholde emner som gir en tilstrekkelig innføring i matematikk, statistikk og mikro- og makroøkonomi til å kunne mestre masterkurs i samfunnsøkonomi.

Masterprogrammet i samfunnsøkonomi er et engelskspråklig program. For opptak til engelskspråklig masterprogram gjelder et av følgende spesielle opptakskrav i engelsk:

- a) Engelsk fra Vg1 i norsk videregående skole (140 årstimer) med snittkarakteren 4 eller bedre.
- b) Bestått programfag i engelsk med et omfang på minst 140 timer eller tilsvarende.
- c) [Test of English as a Foreign Language \(TOEFL\)](#) minst 580 poeng for Paper-based test (PBT).
- d) [Test of English as a Foreign Language \(TOEFL\)](#) minst 92 poeng for Internet-based test (IBT).
- e) [International English Language Testing Service \(IELTS\)](#), Academic med minst 7.0 poeng.

### Engelsk

Applicants with a Bachelor degree in economics or other relevant fields. The degree should include courses in mathematics and statistics and intermediate level courses in micro- and macroeconomics.

All the grades from the bachelor degree will be counted in the average grade. A weighted average grade of C or better is required for admission to the programme.

Applicants must demonstrate English language ability in accordance with the NMBU regulations for programmes taught in English.

## Krav til utstyr

### Bokmål

På studiet brukes datamaskin både i undervisningen og på eksamen. Det er derfor et krav om at alle studenter skal ha egen bærbar datamaskin, jf. Forskrift om studier ved NMBU § 17-4.

### Engelsk

In this study program we use computers in learning situations and on exams. Therefore every student must have their own laptop, cf. The Academic Regulations for the Norwegian University of Life Sciences § 17-4.

## Utvekslingsmuligheter

### Bokmål

Studentene på Handelshøyskolen, NMBU blir oppfordret til å ta deler av utdanningen sin ved et universitet i utlandet, både for faglig og personlig utvikling. Fakultetet og NMBU har mange avtaler med anerkjente utenlandske universiteter i alle verdensdeler. Handelshøyskolen, NMBU har også en rekke faglige kontakter med internasjonale institusjoner og staben ved Handelshøyskolen, NMBU kan være behjelpelig med å finne fram til gode tilbud i utlandet, uavhengig av en avtale. NMBU og Handelshøyskolen, NMBU har også utvekslingsavtaler både med europeiske og amerikanske universiteter på masternivå.

### Engelsk

NMBU School of Economics and Business highly recommends its students to include a semester or a year of study abroad in their education. The department and the university have exchange agreements with universities in Europe and the USA at the master's level.

## Samarbeid med andre institusjoner

### Bokmål

Handelshøyskolen, NMBU er medlem av Nasjonalt fagråd for samfunnsøkonomi og samarbeider med de andre universitetene i Norge.

### Engelsk

NMBU School of Economics and Business is a member of the National University Board for Economics and cooperates with other Norwegian universities.

## Tilrettelegging for studenter fra partneruniversiteter

### Bokmål

Vi ser svært positivt på gjestestudenter og er behjelpelig med å lage et opplegg som gjør en utveksling mulig.

### Engelsk

We highly welcome incoming guest students and will do our best to adapt our courses to facilitate student exchange.

## Programmet skal publiseres på utdanning.no (J/N)

### Bokmål

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## (Kort) introduksjon til søkere

### Bokmål

#### Hvorfor studere Samfunnøkonomi?

- Du studerer i et av Norges ledende fagmiljøer innen miljø-, ressurs-, energi- og utviklingsøkonomi.
- Du får gode jobb- og karrieremuligheter i privat, offentlig og frivillig sektor.
- Du studerer ved et universitet kjent for et meget godt student- og studiemiljø.

#### Hva lærer jeg?

Du får god kompetanse innen økonomisk analyse og dypere innsikt i økonomiske samfunnsmekanismer.

Eksempler på problemstillinger som behandles i studiet, er:

- Hvordan kombinere økonomisk veks med vern av miljøet.
- Hvordan skape nye arbeidsplasser.
- Hvordan redusere fattigdom og få bedre forvaltning av naturressursene i lavinntektsland.
- Hvordan finne ut om det utøves markedsrett, f.eks. i energimarkedet.
- Hvordan analysere virkningene av en eventuell WTO-avtale.
- Forstå hvorfor råvareprisene svinger så sterkt i dagens situasjon.

#### Hva blir jeg?

Samfunnsøkonomer er etterspurt i både offentlig forvaltning og det private næringsliv. Samfunnsøkonomer finnes i organisasjoner som driver med økonomisk utredning og analyse, eller som trenger personer med god økonomisk helhetsforståelse. Aktuelle arbeidsfelt er miljø-, ressurs- og energiforvaltning, næringsutvikling, handelspolitikk, landbrukspolitikk m.m.

## Programmet skal publiseres på studyinnorway.no (J/N)

### Bokmål

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## Søknadsfrist internasjonale studenter SIU

### Engelsk

Nordic applicants: April 20  
EU applicants: April 20  
Non EU-applicants: December 1

## Programbeskrivelse SiU

### Engelsk

You will acquire skills in economic analysis and deeper insights into how the economy works.

Some examples of topics analyzed in the programme are:

- How to organize energy markets to avoid monopolies and market manipulation.
- How to design and implement an-international climate treaty.
- How to reduce poverty and manage natural resources in a better way in developing countries.
- How to analyze consequences of international trade agreements.
- How to explain why commodity prices are so volatile.

#### Contents of the programme:

The masters programme consists of required theory and methods courses and the option to choose a specialization in one or more economic sub-disciplines, e.g., Environmental and Resource Economics; Energy and Climate Economics; Development and Global Change; and Financial and Commodity Market Analysis. Each specialization has a set of required core courses that can be supplemented with electives from organizational science or business management. Alternatively, one can choose a more interdisciplinary profile, by selecting electives from other faculties at NMBU such as in natural sciences, technology or other social sciences to tailor the skills to one's particular interests. The completion of the degree culminates with the submission of a thesis and the successful oral defense of the work.

You can supplement the specialization with courses within organizational science or business management. Moreover, you can choose a more interdisciplinary profile, by choosing from all the courses offered at NMBU in natural sciences, technology or other social sciences. The many opportunities to choose optional courses enables you to acquire skills well suited to your interests.

## Formelle opptakskrav SiU

### Engelsk

Higher Education Entrance Qualification and a completed bachelor's degree comparable to a Norwegian bachelor's degree including a specialization worth 80 ECTS. There is a minimum grade requirement of C. Documented proficiency in English in accordance with NMBU regulations.

Bachelor degree in economics or other relevant fields. The degree should include courses in mathematics and statistics and intermediate level courses in micro- and macroeconomics.

## URL til studieprogrammet på nmbu.no

### Bokmål

<https://www.nmbu.no/en/studies/study-options/master/master-of-science-in-applied-economics-and-sustainability/node/18177>