WITH A SECOND MAJOR IN
SOCIETY AND URBAN SYSTEMS

COLLEGE OF ENGINEERING
Ranked 1st in Asia and Singapore and 5th in the world for Engineering and Technology in the latest Quacquarelli Symonds (QS) World University Rankings by Subject 2018, NTU College of Engineering is a recognised leader in engineering research, practice and education. Comprising six schools, each driving innovation in new areas with the latest engineering advancements, the College is raising and empowering a new generation of engineers to meet the challenges of the real world. Our broad-based and multidisciplinary curriculum which integrates engineering with the arts, humanities, business and social sciences; coupled with professional internships and global immersion programmes not only equip students with technical competencies and soft skills, but also impart global-mindedness and inter-cultural competence.

COLLEGE OF HUMANITIES, ARTS AND SOCIAL SCIENCES
The College of Humanities, Arts and Social Sciences is a union of four Schools and two Centres. They are the School of Art, Design and Media; the School of Humanities; the School of Social Sciences; the Wee Kim Wee School of Communication and Information; the Nanyang Centre for Public Administration; and the Centre for Liberal Arts and Social Sciences. The College provides a curriculum of both breadth and depth, places strong emphasis on analytic and communicative competence as a desired learning outcome, and is committed to promoting internationalisation and cross-cultural understanding.

ACREDITATION
All Engineering programmes offered by NTU College of Engineering are accredited by The Institution of Engineers Singapore, the Singapore signatory to the Washington Accord, through its Engineering Accreditation Board. The Washington Accord is an international agreement for mutual recognition of substantial equivalence of engineering academic programmes worldwide, in satisfying the academic requirements for the practice of engineering as a profession.
SOCIETIES ENGINEER BETTER
SOCIETY AND URBAN SYSTEMS
BACHELOR OF ENGINEERING WITH A SECOND MAJOR IN

The Bachelor of Engineering with a Second Major in Society and Urban Systems programme, jointly offered by the College of Engineering (CoE) and College of Humanities, Arts and Social Sciences (CoHASS), offers students an insightful interdisciplinary study on contemporary urban systems. Students will acquire understanding and develop appreciation for the rationale and processes behind the emergence, growth and evolution of the urban built environment from its natural environment.

In addition to engineering and technological aspects, students will also engage with the social, political, economic and cultural considerations of urban systems planning and policy-making. Courses covered will include physical and environmental studies, planning and policy-making, as well as understanding the multifaceted causes, consequences, and costs of complex urban challenges - with a view towards integrating, synthesising and project management, as well as understanding the multifaceted causes, consequences, and costs of complex urban challenges - with a view towards integrating, synthesising and developing perspectives and solutions for a sustainable urban built environment and improved quality of life.

Under the Second Major in Society and Urban Systems, students will take 4 foundation core courses and 8 specialised elective courses which can be selected from 3 areas – Urban Economics and Public Policy, Society and Culture, and Water and Environmental Management.

PROGRAMME STRUCTURE AND OPTIONS
The structure of the Bachelor of Engineering with a Second Major in Society and Urban Systems programme integrates the requirements of both majors within the normal candidature of 4 years. Students can choose from 4 programme options below:

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<th>Programme</th>
<th>Description</th>
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<tbody>
<tr>
<td>Civil Engineering</td>
<td>with a Second Major in Society and Urban Systems</td>
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<tr>
<td>Electrical and Electronic Engineering</td>
<td>with a Second Major in Society and Urban Systems</td>
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<tr>
<td>Mechanical Engineering</td>
<td>with a Second Major in Society and Urban Systems</td>
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<tr>
<td>Environmental Engineering</td>
<td>with a Second Major in Society and Urban Systems</td>
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ADMISSIONS REQUIREMENTS
Please visit www.coe.ntu.edu.sg/MSR for the Minimum Subject Requirements for this programme.

TUITION FEES AND SCHOLARSHIPS
The tuition fees for the Bachelor of Engineering with a Second Major in Society and Urban Systems programme will be pegged to the fees for the Bachelor of Engineering programmes. Eligible students may also be considered for scholarships that include fully-paid subsidised tuition fees and living allowances. Scholarship terms and conditions apply. For more information on tuition fees and scholarships, please see www.admissions.ntu.edu.sg.

INFORMATION AND ENQUIRIES
For more information and enquiries on the Second Major in Society and Urban Systems programme, please visit www.coe.ntu.edu.sg/SUS.

GRADUATION
Graduates of the Bachelor of Engineering with a Second Major in Society and Urban Systems programme will be awarded a Bachelor of Engineering in their chosen Engineering major with an additional certificate for the Second Major in Society and Urban Systems.

CAREER PROSPECTS
A Bachelor of Engineering lays a strong and fundamental foundation for lifelong careers, ultimately offering students one degree but many choices. The interdisciplinary Second Major in Society and Urban Systems further adds value and provides students the impetus to broaden and diversify their career options in the built environment sector:

- Consultancy
- Sustainable Resource Management
- Environmental Integration
- Research
- Economic Development, Housing and Real Estate
- Sustainable Urban Development and Built Environment
- Development and Social Change
- Transportation Management
- Consultancy
- Science and Technology in Historical Perspective
- Singapore: The Making of a Cosmopolitan City State
- Understanding Globalisation
- Social Class and Inequality
- Environmental Ethnics
- Integrating Perspectives
- Science, Technology and Society
- Social Problems in a Global Context
- Intercultural Communication
- Ethnicity and Ethnic Relations
- National Environment Agency
- Environmental Sociology
- Environmental Economics
- Economic Development, Housing and Real Estate
- Environmental Planning
- Environmental Planning
- Economic Development, Housing and Real Estate
- Integrated Urban Management
- Environmental Impact Assessment
- Engineering Management
- Environmental Quality
- Engineering Management
- Sustainable Resource Management
- Sustainable Urban Development and Built Environment

FOUNDATION CORE COURSES (4 COURSES)

- Integrated Urban Management
- Leaders in Urban Systems and Policy
- Principles of Economics
- Urban Planning and Design

SPECIALISED ELECTIVE COURSES (8 COURSES)

A. Urban Economics and Public Policy (Choose 3)
- Development Economics
- Development and Social Change
- Economy and Society
- Energy Economics
- Environmental Economics
- Environmental Sociology
- Health Economics
- Population and Society
- Science, Technology and Society
- Urban Economics
- Urban and Transport Economics
- Science and Technology in Historical Perspective
- Singapore: The Making of a Cosmopolitan City State
- Social Class and Inequality
- Social Problems in a Global Context
- Understanding Globalisation

B. Society and Culture (Choose 3)
- Environmental Ethics
- Ethnicity and Ethnic Relations
- Intercultural Communication
- Language Planning and Policy
- Language in Society
- Living in Contemporary Cities
- Migration and Multiculturalism
- Person and Society
- Science and Technology in Historical Perspective
- Singapore: The Making of a Cosmopolitan City State
- Social Class and Inequality
- Social Problems in a Global Context
- Understanding Globalisation

C. Water and Environmental Management (Choose 2)
- Air Quality Management
- Energy Resources Management
- Environmental Health and Safety Management
- Environmental Impact Assessment
- Environmental Quality

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