S727 MASTER OF SUSTAINABILITY

FACULTY OF SCIENCE, ENGINEERING AND BUILT ENVIRONMENT Industry Practice Pathway



FOR STUDENTS COMMENCING TRIMESTER 2 2025

Last updated 13/02/2025

When you first enrol via StudentConnect and go through the enrolment steps, you may be able to simply confirm any units that are pre-populated for you. You can also add any that you need to do, as part of your first year's enrolment – by using the information on this map and in the Handbook.

You must also complete the following compulsory zero (0) credit point units: <u>DAIOO1 Academic Integrity and Respect At Deakin</u> (0 credit points) AND <u>STP710 Career Tools for Employability</u> (0 credit points)

YEAR 1	Trimester 2		
Year: 2025	Trimester 3		
YEAR	Trimester 1		
2 Year: 2026	Trimester 2		
	Trimester 3		

S727 COURSE RULES

- Must pass 12 credit points for course
- Must pass ALL units in {DAI001, STP710}
- Must pass 3 credit points in {SLE756, SLE757, SLE761}
- Must pass 5 credit points in {SLE767, SLE768, SLE769} OR
- Must pass 5 credit points in unit set {Sustainability Course Grouped Electives (S728, S727)}
- Must pass 1 unit set(s) in {Sustainable Regional Development (SP-S000082), Environmental Management (SP-S000084), Health and Environment (SP-S000097)}

FOR USE ONLY WHEN UNDERTAKING A CONSULTATION WITH A STUDENT ADVISER:

Student ID:		Name:			
Deakin email:			Preferred contact no:		
Year commenced:	Period commenced:	eCOE (if applicable):	Campus:	Mode:	
Student adviser:				Date:	

GENERAL INFORMATION

This course map is a guide only. You must also ensure you meet the course rules and structure as set out in the official <u>University Handbook</u> of the year you commenced your course. This course map has been created to be used electronically.

Not all units are available in all study periods or mode of delivery.

- Full time study is typically three to four units (or credit points) each study period.
- Part time study is typically one to two units (or credit points) each study period part time study will extend the duration of your studies.
- Trimester 3 is typically an optional study period unless it's your first study period and/or a compulsory study period for your course.

Unit options can be found in the 'Advanced Unit Search' in the most current year's University Handbook.

If you have applied for or received credit for units as recognition of prior learning (RPL), it may alter the units you need to study.

Please seek advice from a Student Adviser in StudentCentral if you have any queries or need help understanding your course structure and unit options.

S727 MASTER OF SUSTAINABILITY ELECTIVE UNIT SETS

SUSTAINABILITY COURSE GROUPED ELECTIVES (S728, S727) (EL-S000001)
ACG703 Design and Digital Skills
ACG706 Web and Interactive Design
ACR706 Environmental Crime and Regulation
ADH712 Food and Water Security
ADH713 Community, Development and Humanitarianism in An Era of Climate Crisis
ADH714 Gender, Race and Culture
ADH717 Climate Change and Sustainability
ADS701 Introduction to International and Community Development
ADS704 Community From Participation to Activism
ADS705 Participatory and Community Development Practice
ADS711 Non-Government Organisations and other Development Actors
ADS715 Cross Cultural Communication and Practice
ADS722 Private Sector Development: Corporations, Social-Enterprise and Microfinance
ADS734 Geopolitics and Political Economy of Development

AHA724 Disaster Risk Reduction and Community Led Recovery AHL701 The Humanitarian World AIM703 Heritage Practice: Conservation and Managing Change AIM708 World Heritage AIM709 Intangible Cultural Heritage AIM720 Sustainability and Human Rights in Heritage and Museums AIP704 Making Policy AIP740 Policy Lessons From Overseas AIP748 Intergovernmental Relations: Federalism, Power and Multi-Level Governance AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy AIR701 China and the World AIR707 The United Nations and International Organisation AIR717 International Conflict Analysis AIR720 Transnational Activism and Policy AIR726 Human Rights in World Politics AIR728 Global Political Economy ALC708 Social Media Content Creation ALJ714 Journalism for Social Change ALJ715 Multimedia Storytelling ALJ722 Investigative and Narrative Journalism ALR718 Public Relations, Activism and Social Change ALR782 Public Affairs and Opinion Formation DMC713-OD Life Cycle Assessment: a Practical Introduction^ DMC714-OD Environmental Cost-Benefit Analysis in Business^ DMC716-OD Renewable Energy Microgrid: Integrating Green Hydrogen^ HDS733 Community Capacity Building - Theory and Practice for Inclusion HMC703-OD Promoting Human and Planetary Health: Tools for a Sustainable Future^ HMF701 Agricultural Health and Medicine HMF702 Healthy and Sustainable Agricultural Communities HSH701 Principles and Practice of Public Health **HSH703 Health Promotion**

HSH728 Health Equity and Human Rights
HSH736 Community Consultation and Participation
HSN706 Policy and Practice for Healthy and Sustainable Food Systems
MIS715 Responsible Artificial Intelligence
MIS741 Ethics of Digital Transformation
MIS770 Foundation Skills in Data Analysis
MMC705-OD Innovation and Leadership^
MMH733 Ethical Decision Making in Organisations
MMM710 Emerging Issues in International Operations
MPE711 Global Trade and Supply Chains
MPP710 Environmental Sustainability for Business
SEE705 Energy Efficiency, Management and Market Analysis
SEE707 Energy Market and Policy
SET721 Engineering Sustainability
SIT718 Real World Analytics
SIT741 Statistical Data Analysis
SLE715 Circular Economy
SLE716 Environmental Protection
SLE718 Green Chemistry and Industrial Bioprocessing
SLE720 Risk Assessment and Control
SLE725 Environmental Management Systems
SLE740 Climate Change, Adaptation and Mitigation
SLE741 Regional Development Economics for Sustainability
SLE742 Systems Thinking for Sustainability and Resilience
SLE743 Spatial Analysis and Geographic Information Systems
SLE763 Research Project Planning
SLE767 Industry Practice Planning
SRD743 Components of the Circular City
SRD744 Interactions and Enablers of the Circular City
SRD760 Geo-Planning and Design
SRT722 Sustainable Construction Studies
SRT757 Building Systems and Environment
This is a 0.5cp micro-credential. 2 micro-credentials need to be completed to achieve 1cp of study.

[^]This is a 0.5cp micro-credential. 2 micro-credentials need to be completed to achieve 1cp of study.

S727 MASTER OF SUSTAINABILITY SPECIALISATION UNIT SETS

ENVIRONMENTAL MANAGEMENT (SP-S000084) SLE715 Circular Economy SLE716 Environmental Protection SLE720 Risk Assessment and Control SLE725 Environmental Management Systems

Completion Rule

• Must pass 4 credit points in {SLE715, SLE716, SLE720, SLE725}

HEALTH AND ENVIRONMENT (SP-S000097)
HMC703-OD Promoting Human and Planetary Health: Tools for a Sustainable Future
HSH701 Principles and Practice of Public Health
HSH703 Health Promotion
HSH728 Health Equity and Human Rights
HSH736 Community Consultation and Participation
MMC705-OD Innovation and Leadership
MMC706-OD Change Tools

Completion Rule

- Must pass all unit(s) in {HMC703-OD, HSH701, HSH703}
- Must pass 1 unit(s) in {HSH728, HSH736}
- Must pass 1 unit(s) in {MMC705-OD, MMC706-OD}

SUSTAINABLE REGIONAL DEVELOPMENT (SP-S000082)
SLE740 Climate Change, Adaptation and Mitigation
SLE741 Regional Development Economics for Sustainability
SLE742 Systems Thinking for Sustainability and Resilience
SLE743 Spatial Analysis and Geographic Information Systems

Completion Rule

• Must pass 4 credit points in {SLE740, SLE741, SLE742, SLE743}

S727 MASTER OF SUSTAINABILITY STREAM UNIT SETS

S727 OPTION 1 - INDUSTRY PRACTICE PATHWAY (ST-S727002)

SLE767 Industry Practice Planning

SLE768 Industry Practice A

SLE769 Industry Practice B

Completion Rule

• Must pass all unit(s) in {SLE767, SLE768, SLE769}

ACCRO Design and Digital Skills ACCRO Vels and Interactive Design ACROS Design and Digital Skills ACROS Professor State and Regulation ADRITO Exercisamental, Core and Regulation ADRITO Exercisamental, Description and Accounting Across of Climate Crisis ADRITO Exercisamental, Description and Interactival State of Climate Crisis ADRITO Climate Clarge and Scate analytic ADRITO Exercisamental Compared to Scate analytic ADRITO Exercisamental Compared and Community Development ADRITO Exercisamental Community Left Recognic ADRITO Exercisamental Exercisamental Community Left Recognic ADRITO Exercisamental Exercisamental Community Left Recognic ADRITO Exercisamental Exercisa	S727 OPTION 2 - ADVANCED DISCIPLINE COURSEWORK PATHWAY (ST-S727003)
AREPOS Environmenta Crime and Regulation ADEPOS Environmenta, Deceapment and Humanitations In An Era of Climate Crisis ADEPOS Community, Deceapment and Humanitations In An Era of Climate Crisis ADEPOS Community, Deceapment Associated Into ADEPOS Community From Participation and Community Development ADEPOS Community From Participation in Community Development ADEPOS Envirolpating and Community Development Frontice ADEPOS Exprisisations and atter Development Actors ADEPOS Exprisisations and atter Development Actors ADEPOS Exprisisations and atter Development Actors ADEPOS Exprisis Sector Development Compunitions Social Enterprise and Microfinance ADEPOS Exprises Sector Development Compunitions Social Enterprises and Microfinance ADEPOS ADEPOS ADEPOS Community Lice Recovery ADEPOS ADE	ACG703 Design and Digital Skills
ADH772 Food and Water Security ADH772 Consmirting Development and Humanitarianism in An Era of Climate Crisis ADH774 Condete: Race and Culture ADH774 Condete: Race and Culture ADH774 Condete: Race and Sustainability ADS701 Introduction to International and Community Development ADS704 Community From Participation to Activities ADS705 Participation y and Community Development Practice ADS705 Participation y and Community Development Actors ADS705 Participation and Community Development Actors ADS705 Participation of Community Development Actors ADS706 Participation Observation and Advances ADS706 Participation Decrease ADS706 Participation Decrease ADS707 Development Advances and Accommunity Development Advances ADS707 Deve	ACG706 Web and Interactive Design
AD1711 Community, Development and Hermatistatisms in An Era of Climate Cisiss AD1714 Genetian Race and Culture AD1714 Cisenter, Bace and Culture AD1715 Cisenter, Bace and Culture AD1715 Cisenter, Bace and Culture AD1716 Cisenter, Bace and Culture AD1716 Cisenter, Bace and Culture AD1716 Cisenter, Bace and Culture AD1717 Cisenter, Bace and Accountability in Turbulent Tires AD1717 Cisenter, Counter, Counter, Backware AD1717 Cisenter, Counter, Backware AD1717 Cisenter, Counter, Counter, Counter, Backware AD1717 Cisenter, Backware AD1717 Cisenter, Cisenter	ACR706 Environmental Crime and Regulation
ADH714 Gender, Rece and Culture ADH714 Clander Change and Sistainability ADS701 Introduction to International and Community Development ADS704 Community From Participation to Activism ADS705 Participatory and Community Development Practice ADS705 Participatory and Community Development Practice ADS705 Participatory and Community Development Practice ADS705 Construct Communication and ethan Development Actors ADS705 Construct Communication and Practice ADS705 Participatory and Community Development Actors ADS705 Construct Communication and Practice ADS705 Participatory and Community Development Actors ADS705 Construct Sector Development Corporations Social-Entergrise and Microfinance ADS705 Participatory and Community Led Receivery AHA706 Dissister Risk Reduction and Community Led Receivery AHA706 Interture Fractice: Conservation and Minaging Change AMA706 Minagility Cultural Hieritage AMA706 Interture Fractice: Conservation and Minaging Change AMA708 Minagility Cultural Hieritage AMA708 Minagility Cultural Hieritage AMA708 Adving Policy AP204 Adving Policy AP204 Adving Policy AP204 Distruction Conservation Power and Muttil Level Communicy AP273 Covernance and Accountability in Turbulent Times AP2705 The Politics of Australia's Economy	ADH712 Food and Water Security
AD572D Climate Change and Sistainability AD572D Climate Change and Sistainability AD572D Community Prom Participation to Activism AD572D A Community Prom Participation to Activism AD572D Farticipatory and Community Development Practice AD5711 Non-Ecvernment Organisations and other Development Actors AD5715 Cross Cultural Communication and Practice AD5715 Cross Cultural Community Leed Recovery AH4724 Disaster Risk Reduction and Community Leed Recovery AH4724 Disaster Risk Reduction and Community Leed Recovery AH4701 The Humanication World AM703 Inchangible Cultural Heritage AM703 Inchangible Cultural Heritage AM704 Inchangible Cultural Heritage AM725 Sistainability and Human Rights in Heritage and Ausseums AP704 Disloy Lessons From Overseas AP704 Disloy Lessons From Overseas AP704 Disloy Lessons From Overseas AP705 The Politics of Australia's Community in Turbulent Times AP705 The Politics of Australia's Community AP7075 Governance and Accountability in Turbulent Times	ADH713 Community, Development and Humanitarianism in An Era of Climate Crisis
ADSZOI Introduction to International and Community Development ADSZOIA Community From Participation to Activism ADSZOIA Community From Participation to Activism ADSZOIA Participatory and Community Development Practice ADSZII Non-Government Organisations and other Development Actors ADSZII Non-Government Organisations and other Development Actors ADSZII Scross Cultural Community and Paratice A	ADH714 Gender, Race and Culture
ADSZOS Perticipatory and Community Development Practice ADSZOS Perticipatory and Community Development Actors ADSZOS Community Communications and other Development Actors ADSZOS Communication and Practice ADSZOS A Geopolitics and Political Economy of Development AHAZZA Disaster Risk Reduction and Community Led Recovery AHAZZA Disaster Risk Reduction and Community Led Recovery AHAZZA Disaster Risk Reduction and Community Led Recovery AHAZZA Disaster Risk Reduction and Managing Change AMAZOS Heritage Practice Conservation and Managing Change AMAZOS Sustainability and Human Rights in Heritage and Afuseums APZAQ Policy Lessons From Devrseas APZAQ Policy Lessons From Devrseas APZAQ Policy Lessons From Oevrseas APZAQ Folicy Lessons From Coevrseas APZAG Intergovernmental Relations: Federatism, Power and Multi-Level Covernance APZAG Overnance and Accountability in Turbulent Times	ADH717 Climate Change and Sustainability
ADS715 Cross Cultural Community Development Practice ADS715 Cross Cultural Communication and Practice ADS725 Private Sector Development Corporations. Social-Enterprise and Microfinance ADS724 Private Sector Development. Corporations. Social-Enterprise and Microfinance ADS724 Repositics and Political Economy of Development AHAZ24 Disaster Risk Reduction and Community Led Recovery AHLZ01 The Humanitarian World AMX708 Heritage Practice: Conservation and Managing Change AMX708 World Heritage AMX709 Untampitte Cultural Heritage AMX709 Untampitte Cultural Heritage AMX709 Policy Lessons From Diverseas AIP740 Policy Lessons From Diverseas AIP740 Policy Lessons From Diverseas AIP773 Covernance and Accountability in Turbulent Times AIP770 Overnance and Accountability in Turbulent Times	ADS701 Introduction to International and Community Development
ADS711 Non-Government Dranisations and other Development Actors ADS712 Cross Cultural Communication and Practice ADS722 Private Sector Development: Corporations. Social-Enterprise and Microfinance ADS734 Geopolitics and Political Economy of Development AHA724 Disaster Risk Reduction and Community Led Recovery AHA724 Disaster Risk Reduction and Community Led Recovery AHA701 The Humanitarian World AMA703 Heritage Practice: Conservation and Managing Change AMA708 World Heritage AMA709 Intangible Cultural Heritage AMA709 Intangible Cultural Heritage AP704 Making Policy AP704 Policy Lessons From Overseas AP749 Intergovernmental Relations: Federalism, Power and Mutti-Level Governance AP773 Governance and Accountability in Turbulent Times	ADS704 Community From Participation to Activism
ADS715 Cross Cultural Communication and Practice ADS722 Private Sector Development: Corporations, Social-Enterprise and Microfinance ADS724 Ceopolitics and Political Economy of Development AHA724 Disaster Risk Reduction and Community Led Recovery AHA724 Disaster Risk Reduction and Community Led Recovery AHA724 Disaster Risk Reduction and Community Led Recovery AMA703 Heritage Practice: Conservation and Managing Change AMA708 World Heritage AMA709 Intangible Cultural Heritage AMA709 Intangible Cultural Heritage and Museums AIP704 Making Policy AIP740 Policy Lessons From Overseas AIP749 Policy Lessons From Overseas AIP749 Policy Lessons From Overseas AIP773 Governance and Accountability in Turbulent Times AIP776 Overnance and Accountability in Turbulent Times	ADS705 Participatory and Community Development Practice
ADS722 Private Sector Development: Corporations. Social-Enterprise and Microfinance ADS734 Geopolitics and Political Economy of Development AHA724 Disaster Risk Reduction and Community Led Recovery AHL701 The Humanitarian World AIM703 Heritage Practice: Conservation and Managing Change AIM708 World Heritage AIM709 Intangible Cultural Heritage AIM720 Sustainability and Human Rights in Heritage and Museums AIP704 Making Policy AIP740 Policy Lessons From Overseas AIP740 Policy Lessons From Overseas AIP773 Governance and Accountability in Turbulent Times AIP7780 The Politics of Australia's Economy	ADS711 Non-Government Organisations and other Development Actors
ADS734 Geopolitics and Political Economy of Development AHA724 Disaster Risk Reduction and Community Led Recovery AHA701 The Humanitarian World AIM703 Heritage Practice: Conservation and Managing Change AIM708 World Heritage AIM709 Intangible Cultural Heritage AIM720 Sustainability and Human Rights in Heritage and Museums AIP740 Policy Lessons From Overseas AIP740 Policy Lessons From Overseas AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	ADS715 Cross Cultural Communication and Practice
AHA724 Disaster Risk Reduction and Community Led Recovery AHL701 The Humanitarian World AIM703 Heritage Practice: Conservation and Managing Change AIM708 World Heritage AIM709 Intangible Cultural Heritage AIM709 Intangible Cultural Heritage AIM720 Sustainability and Human Rights in Heritage and Museums AIP704 Making Policy AIP740 Policy Lessons From Overseas AIP748 Intergovernmental Relations: Federalism, Power and Multi-Level Covernance AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	ADS722 Private Sector Development: Corporations, Social-Enterprise and Microfinance
AHLZO1The Humanitarian World AIMZO3 Heritage Practice: Conservation and Managing Change AIMZO8 World Heritage AIMZO9 Intangible Cultural Heritage AIMZO9 Intangible Cultural Heritage AIMZO2 Sustainability and Human Rights in Heritage and Museums AIPZO4 Making Policy AIPZ40 Policy Lessons From Overseas AIPZ48 Intergovernmental Relations: Federalism, Power and Multi-Level Governance AIPZ33 Governance and Accountability in Turbulent Times AIPZ80 The Politics of Australia's Economy	ADS734 Geopolitics and Political Economy of Development
AIM708 World Heritage AIM709 Intangible Cultural Heritage AIM720 Sustainability and Human Rights in Heritage and Museums AIP704 Making Policy AIP740 Policy Lessons From Overseas AIP748 Intergovernmental Relations: Federalism. Power and Multi-Level Governance AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	AHA724 Disaster Risk Reduction and Community Led Recovery
AIM709 Intangible Cultural Heritage AIM720 Sustainability and Human Rights in Heritage and Museums AIP704 Making Policy AIP740 Policy Lessons From Overseas AIP748 Intergovernmental Relations: Federalism. Power and Multi-Level Governance AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	AHL701 The Humanitarian World
AIM720 Sustainability and Human Rights in Heritage and Museums AIP704 Making Policy AIP740 Policy Lessons From Overseas AIP748 Intergovernmental Relations: Federalism, Power and Multi-Level Governance AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	AIM703 Heritage Practice: Conservation and Managing Change
AIP704 Making Policy AIP740 Policy Lessons From Overseas AIP748 Intergovernmental Relations: Federalism, Power and Multi-Level Governance AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	AIM708 World Heritage
AIP740 Policy Lessons From Overseas AIP748 Intergovernmental Relations: Federalism, Power and Multi-Level Governance AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	AIM709 Intangible Cultural Heritage
AIP748 Intergovernmental Relations: Federalism, Power and Multi-Level Governance AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	AIM720 Sustainability and Human Rights in Heritage and Museums
AIP748 Intergovernmental Relations: Federalism, Power and Multi-Level Governance AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	AIP704 Making Policy
AIP773 Governance and Accountability in Turbulent Times AIP780 The Politics of Australia's Economy	AIP740 Policy Lessons From Overseas
AIP780 The Politics of Australia's Economy	AIP748 Intergovernmental Relations: Federalism, Power and Multi-Level Governance
	AIP773 Governance and Accountability in Turbulent Times
AIR701 China and the World	AIP780 The Politics of Australia's Economy
	AIR701 China and the World

AIR707 The United Nations and International Organisation
AIR717 International Conflict Analysis
AIR720 Transnational Activism and Policy
AIR726 Human Rights in World Politics
AIR728 Global Political Economy
ALC708 Social Media Content Creation
ALJ714 Journalism for Social Change
ALJ715 Multimedia Storytelling
ALJ722 Investigative and Narrative Journalism
ALR718 Public Relations, Activism and Social Change
ALR782 Public Affairs and Opinion Formation
DMC713-OD Life Cycle Assessment: a Practical Introduction^
DMC714-OD Environmental Cost-Benefit Analysis in Business^
DMC716-OD Renewable Energy Microgrid: Integrating Green Hydrogen^
HDS733 Community Capacity Building - Theory and Practice for Inclusion
HMF701 Agricultural Health and Medicine
HMF702 Healthy and Sustainable Agricultural Communities
HSN706 Policy and Practice for Healthy and Sustainable Food Systems
MIS715 Responsible Artificial Intelligence
MIS741 Ethics of Digital Transformation
MIS770 Foundation Skills in Data Analysis
MMH733 Ethical Decision Making in Organisations
MMM710 Emerging Issues in International Operations
MPE711 Global Trade and Supply Chains
MPP710 Environmental Sustainability for Business
SEE705 Energy Efficiency, Management and Market Analysis
SEE707 Energy Market and Policy
SET721 Engineering Sustainability
SIT718 Real World Analytics
SIT741 Statistical Data Analysis
SLE718 Green Chemistry and Industrial Bioprocessing
SRD743 Components of the Circular City

SRD744 Interactions and Enablers of the Circular City
SRD760 Geo-Planning and Design
SRT722 Sustainable Construction Studies
SRT757 Building Systems and Environment

Completion rule:

Must pass 5 credit points in {ACG703, ACG706, ACR706, ADH712, ADH713, ADH714, ADH717, ADS701, ADS704, ADS705, ADS711, ADS715, ADS722, ADS734, AHA724, AHL701, AIM703, AIM708, AIM709, AIM720, AIP704, AIP704, AIP704, AIP703, AIP780, AIR701, AIR707, AIR717, AIR720, AIR726, AIR728, ALC708, ALJ714, ALJ715, ALJ722, ALR718, ALR782, DMC713-OD, DMC714-OD, DMC716-OD, HDS733, HMC703-OD, HMF701, HMF702, HSH701, HSH703, HSH728, HSH736, HSN706, MIS715, MIS741, MIS770, MMC705-OD, MMC706-OD, MMH733, MMM710, MPE711, MPP710, SEE705, SET721, SIT718, SIT741, SLE715, SLE716, SLE718, SLE720, SLE725, SLE740, SLE741, SLE742, SLE743, SLE763, SLE767, SRD743, SRD744, SRD760, SRT722, SRT757}

[^]This is a 0.5cp micro-credential. 2 micro-credentials need to be completed to achieve 1cp of study.