

Certificate in Innovation and Entrepreneurship: Core and Elective Courses

Effective Beginning Academic Calendar Year 2024-25 (Beginning Fall Term 2024); Last Updated April 2024

Note: Courses on this list may be updated from time to time, please check our website for details. Updates to this list will be posted in April when course registrations open.

Core Courses - Choose at least one

School of Business

- SEM 330 Exploring Innovation and Entrepreneurship
- SEM 333 Technology Ventures: Navigating Entrepreneurial Innovation and Growth
- SEM 345 Social Entrepreneurship
- SEM 431 New Venture Creation

ALES

- AN SC 479/499 Integrative Project in Animal Science/Animal Health Science
- AREC 323 Introduction to Management for Agri-Food, Environmental, and Forestry Business
- AREC 423 Advanced Management Methods & Application for Agri-Food, Fashion & Resource Bus.
- NUFS 425 Methods and Applications in Nutritional Product Development
- NUFS 450 Food Product Development

Arts

- HADVC 209 History of Modern Design
- DRAMA 259 Performer Created Theatre
- SOC 363 Sociology of Work and Industry

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- AUMGT 350 Entrepreneurship

Engineering

- ENGG 260 Innovation and Entrepreneurship with Engineers
- ENG M 402 Entrepreneurship and Project Management

Native Studies

- NS 330 Indigenous Economies

Science

- PHYS 495/595 Special Topics in Physics / Physics Innovation & Entrepreneurship

REQUIRED Final Integrative Project Course - Register after completing 9 credits of Core and Elective courses

SEM 331 Integrative Capstone in Innovation and Entrepreneurship

Elective Courses - Choose at least two**Alberta School of Business**

- ACCTG 426 Management Control Systems
- ACCTG 463 Accounting for Natural Resources, Energy, and the Environment
- BTM 441 Managing Information Systems: A Senior Management Perspective
- BUEC 211 (formerly BUEC 311) Business Economics, Organizations and Management
- BUEC 479 Government and Business in Canada
- FIN 322 (formerly FIN 422) Capital Investment
- MARK 201 (formerly MARK 301) Introduction to Marketing
- OM 468 Quantitative Management Consulting Project
- SEM 301 Organizational Behaviour
- SEM 321 Strategy, Management and Organizational Theory
- SEM 402 Leadership Skills
- SEM 412 Effective Negotiations
- SEM 488 Selected Topics in Organization Theory / Introduction to Indigenous Business
- B LAW 488 Selected Topics in Business Law / Entrepreneurship and Legal Principles

ALES

- AREC 250 Social and Economic Issues of Food Biotechnology
- AREC 482 Cooperatives and Alternative Business Institutions
- HECOL 241 Fashion Industries
- HECOL 250 Design Studies and Practices
- HECOL 300 Policy Development and Evaluation
- HECOL 301 Program Planning and Evaluation
- HECOL 313 Family Dynamics
- HECOL 412 Family Challenges

- HECOL 440 Family Policy Issues
- HECOL 441 Textiles and Apparel in the Global Economy
- NUFS 100 Introduction to Food Science and Technology
- NUFS 200 Introduction to Functional Foods and Nutraceuticals
- NUFS 201 Physical Principles of Food Structure and Functionality
- NUFS 311 Introduction to Food Processing
- NUFS 361/363 Food Microbiology
- NUFS 401 Undergraduate Research Project
- NUFS 402 Brewing, Enology, and Food Fermentations
- NUFS 403 Processing of Milk and Dairy Products
- NUFS 406 Science and Technology of Cereal and Oilseed Processing
- NUFS 427 Food Safety
- NUFS 430 Principles of Sensory Evaluation of Foods
- NUFS 454 Unit Operations in Food Preservation
- NUFS 490 Innovations in Food Science
- PL SC 345 Plants for Bioproducts

Arts

- ART 438 Practicum
- C LIT 210 Literature in the Digital Age
- C LIT 228 Literature, Popular Culture and the Visual Arts
- C LIT 450 World Literature and the Environment
- DES 586/7 Design Practicum
- DES 597 Design Management
- DES 483 Design Issues
- DR 240 Voice for Performance
- DR 331 Movement and Physical Theatre
- DR 427 Topics in Community Based and Applied Theatre
- ECON 281 Intermediate Microeconomic Theory I
- ECON 373 Industrial Organization
- ECON 399 Introductory Econometrics
- ECON 384 Intermediate Microeconomic Theory II
- ECON 421 International trade
- ECON 471 Strategic Behaviour of the Firm
- ECON 422 International Payments
- ECON 472 Market Power: Theory and Policy

- ECON 493 Economic Forecasting
- ECON 222 Technology, Institutions and Economic Growth
- ECON 451 Indigenous Economic Development
- ECON 251 Indigenous Economics
- ECON 467 Environmental and Natural Resource Policy
- ECON 404 Applied Economics Projects
- FREN 254 Introduction to Translation Theory and Practice: French-English-French
- FREN 311 Mystery, Myth, and Supernatural
- FREN 333 French Cultural Moments
- FREN 454 Translation: English into French
- FREN 479 Media and Society in France
- GERM 443 Advanced Translation: German into English
- GERM 444 Exercises in Translation: English into German
- HADVC 209 History of Modern Design
- HADVC 309 Sustainable Design
- LA ST 210 South America
- MLCS 210 Approaches to Cultural Studies
- MLCS 410 Capstone Course
- MST 350 Understanding Video Games (in person)
- MST 351 Understanding Video Games (remote)
- MUSIC 365 Topics in Ethnomusicology
- MUSIC 495 The Business of Music
- PHIL 366 Computers and Culture
- PHIL 385 Ethics and Artificial Intelligence
- PHIL 355 Environmental Ethics
- POLSH 407 Business Polish
- RUSS 443 Russian-English Translation
- SLAV 399 Early Ukrainian Canadian Culture
- SOC 203 Social Problems
- SOC 260 Inequality and Social Stratification
- SOC 269 Introductory Sociology of Globalization
- SOC 291 Introduction to Environmental Sociology
- SOC 302 Topics in Sociology (Anti-racism and Racial Injustice)
- SOC 302 Topics in Sociology (Media and Society)
- SOC 327 Criminal Justice Administration in Canada
- SOC 343 Social Movements
- SOC 366 People in Industry

- SOC 369 Sociology of Globalization
- SOC 370 Racism and Decolonization
- SOC 402 Topics in Sociology (Commons and Climate Justice)
- SOC 402 Topics in Sociology (Speed, Mobility, and Work)
- SOC 415 Applied Research Internship
- SOC 445 Cities and Suburbia
- SOC 456 Data Analysis and Research
- SOC 496 Human Rights in International Perspective
- SPAN 405 Exercises in Translation: Spanish into English
- SPAN 406 Exercises in Translation: English into Spanish
- SPAN 475 Spanish in Society
- UKR 300 Ukrainian through its Living Culture I
- UKR 306 Business Ukrainian
- UKR 400 Ukrainian through its Living Culture II
- WGS 102 Gender and Social Justice
- WGS 244 Critical Disability Studies
- WGS 250 Gender and Science
- WGS 390 Environmental Feminisms and Social justice
- WGS 310 Gender, Development, and Beyond
- WGS 360 Race, Class, and Gender

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- AUACC 311 Introductory Accounting
- AUACC 322 Managerial Accounting
- AUART 331 Drawing III: Contemporary Ideas in Drawing ● AUART 371 Painting III: Contemporary Ideas in Painting
- AUART 411 Interdisciplinary Exploration: Studio
- AUCHE 341 Environmental Chemistry
- AUCSC 204 Computing Technology in Modern Society
- AUCSC 460 Artificial Intelligence
- AUDRA 239 Theatre Company
- AUDRA 250 Applied Improvisation
- AUDRA 350 Introduction to Directing
- AUECO 203 Intermediate Microeconomic Analysis I
- AUECO 254 India Tour
- AUECO 341 Environmental Economics

- AUECO 346 Agricultural Economics
- AUECO 356 China Tour: Experiencing Development and Change
- AUECO 360 International Economics
- AUECO 364 Development Economics
- AUENG 368 Ecofeminist Theory and Women's Writing
- AUENV 220 Applications in Sustainability
- AUENV 324 Resource and Environmental Management
- AUENV 327 Environmental Education and Heritage Interpretation
- AUIDS 230 Introduction to Gender and Women's Studies
- AUIDS 302 Exploring Body Issues
- AUMGT 310 Corporate Finance
- AUMGT 330 Introduction to Marketing
- AUMGT 345 Organizational Theory
- AUMGT 360 Hockey: Culture and Commerce
- AUMGT 370 Organizational Research Methods
- AUMUS 226 Music and the Moving Image
- AUMUS 235 Introduction to Conducting
- AUMUS 236 Introduction to Choral Techniques, Literature, and Interpretation
- AUMUS 250 Introduction to Music Education
- AUMUS 330 Music for Theatre
- AUMUS 356 Music and Wellness
- AUPED 317 Exercise in Special Populations
- AUPED 343 Training Methodologies and Athletic Performance
- AUPED 469 Sport and Canadian Popular Culture
- AUPHI 355 Philosophy and Environment
- AUPHI 390 Indigenous Thought: First Nations Thought and Knowledge
- AUPOL 328 Environmental Politics
- AUPOL 329 Popular Culture, Law and Politics
- AUPOL 355 Gender, Law, and Politics
- AUPSY 342 Health Psychology
- AUPSY 344 Environmental Psychology
- AUPSY 346 Community Psychology
- AUREL 263 Spirituality and Globalization
- AUREL 345 Religion and Ecology
- AUSOC 218 Sociology of Global and Development Issues
- AUSOC 222 Canadian Social Issues
- AUSOC 275 Sex, Gender, and Society

- AUSOC 341 Sociology of Food
- AUSOC 358 Environmental Sociology
- AUSOC 393 Political Sociology

Education

- EDIT 486 - Interactive Multimedia
 - EDIT 488 - Online Teaching and Learning
 - EDCT 400 - Conference Seminar: Robotics & Learning: Constructionism in Practice
 - *EDCT 400 - Conference Seminar*
 - *EDSE 401 - Conference Seminar*
- *Denotes a course that requires approval by an administrator. Registration inquiries for specific sections can be sent to educ.info@ualberta.ca - please include the section of interest.*

Engineering

- ENG M 310 OR 401 Engineering Economics / Financial Management
 - ENG M 405 Engineering, Business and Society
 - ENG M 408 Manufacturing Systems and Engineering
 - ENG M 501 Production and Operations Management
 - ENG M 508 Energy Auditing and Management
 - ENG M 514 Reliability Engineering
 - ENG M 516 Maintenance Management
 - ENG M 530 Engineering Project Management
 - ENG M 540 Introduction to Optimization Models and Algorithms
 - ENGG 420 Engineering Law
 - ENGG 490 Engineering Leadership Lab
- NOTE: Certain courses may be restricted for registration. Engineering registration assistance requests may be sent to enggui@ualberta.ca.

Kinesiology, Sport & Recreation

- HEED 321 Psychological Dimensions of Health Promotion
- KIN 303 Psychology of Sport and Physical Activity
- KIN 311 Assessment of Fitness and Health
- KIN 335 Advanced Conditioning Methodology
- KIN 372 Neuroscience Consideration for Adapted Physical Activity

- KIN 403 The Application of Psychological Skills to Sport and Physical Activity
- KIN 440 Advanced Sports Injury Management
- KIN 444 Communication Skills and Strategies in Sport and Physical Activity
- KRLS 411 The Business of Hockey
- KRLS 421 Play Leadership
- RLS 331 Leisure Education

Native Studies

- NS 115 Indigenous Peoples and Technoscience
- NS 345 Governance in Indigenous Nations
- NS 420 Partnership Strategies

Science

- BIOL 298 Understanding Biological Research
- BIOL 299 Research Opportunity Program
- BIOL 398 Research Project
- BIOL 399 Research Project
- BIOL 498 Research Project
- BIOL 499 Research Project
- CHEM 299 Research Opportunity Program in Chemistry
- CHEM 399 Research Experience in Chemistry
- CHEM 401 Introduction to Chemical Research
- CHEM 403 Chemical Research
- CHEM 425 Separations and Mass Spectrometry
- CHEM 451 Chemical Biology
- CHEM 454 Bioconjugate Chemistry
- CHEM 405 Special Topics in Chemistry
- CMPUT 250 Computer and Games
- CMPUT 401 Software Process and Project Management
- CMPUT 404 Web Applications and Architecture
- CMPUT 414 Introduction to Multimedia Technology
- CMPUT 495 Honours Seminar (note: considered credited for CIE - SEM 331 eligibility requirements)
- CMPUT 469 Artificial Intelligence Capstone
- MATH 356 Introduction to Mathematical Finance I
- MATH 357 Introduction to Mathematical Finance II

- MATH 371 Mathematical Modelling in the Life Sciences
- MATH 372 Mathematical Modelling I
- MATH 408 Computational Finance
- PHYS 397 Projects in Experimental Physics
- STAT 371 Probability and Stochastic Processes
- STAT 378 Applied Regression Analysis
- STAT 479 Time Series Analysis