

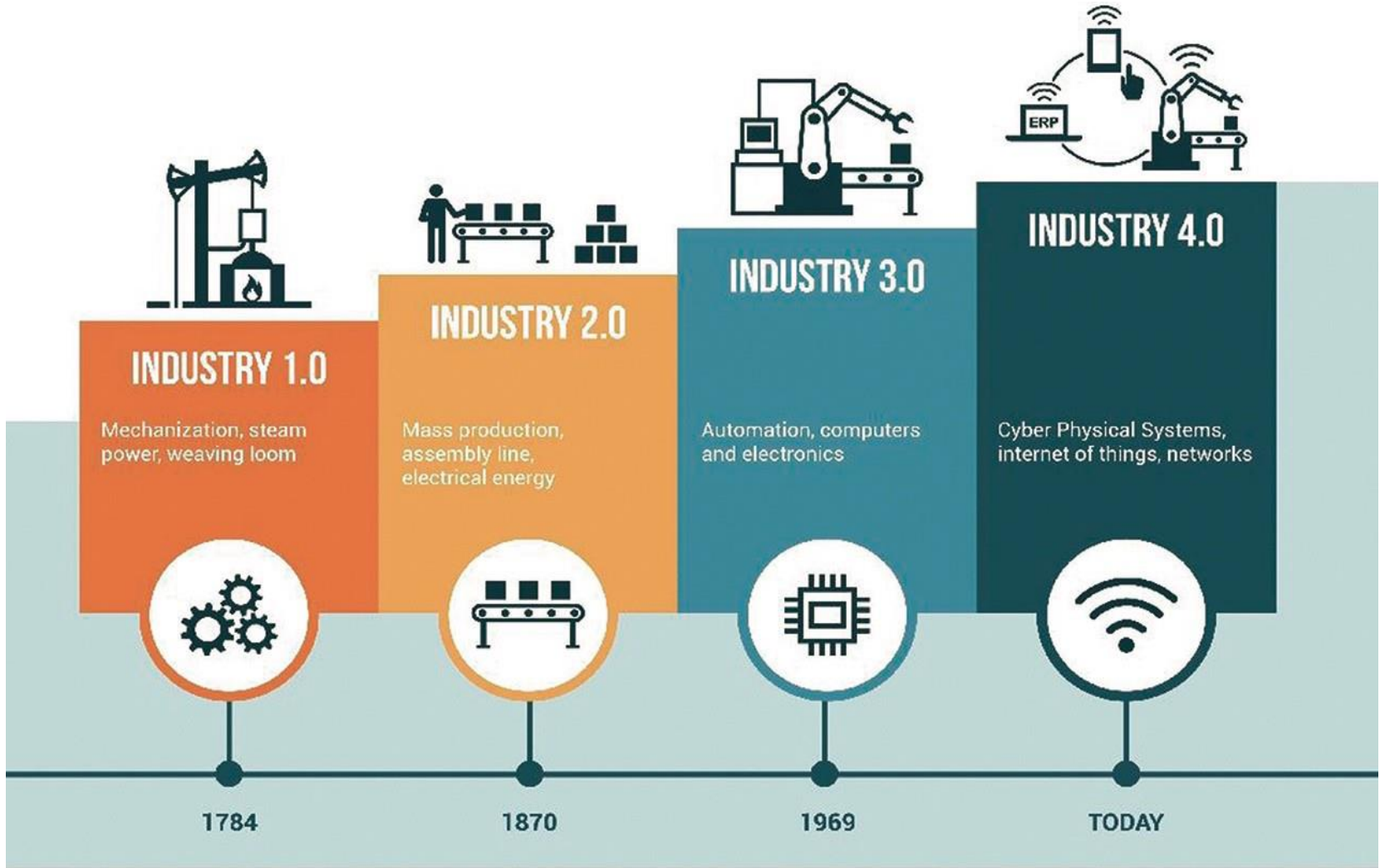
Education Reforms at NUS

December 2023

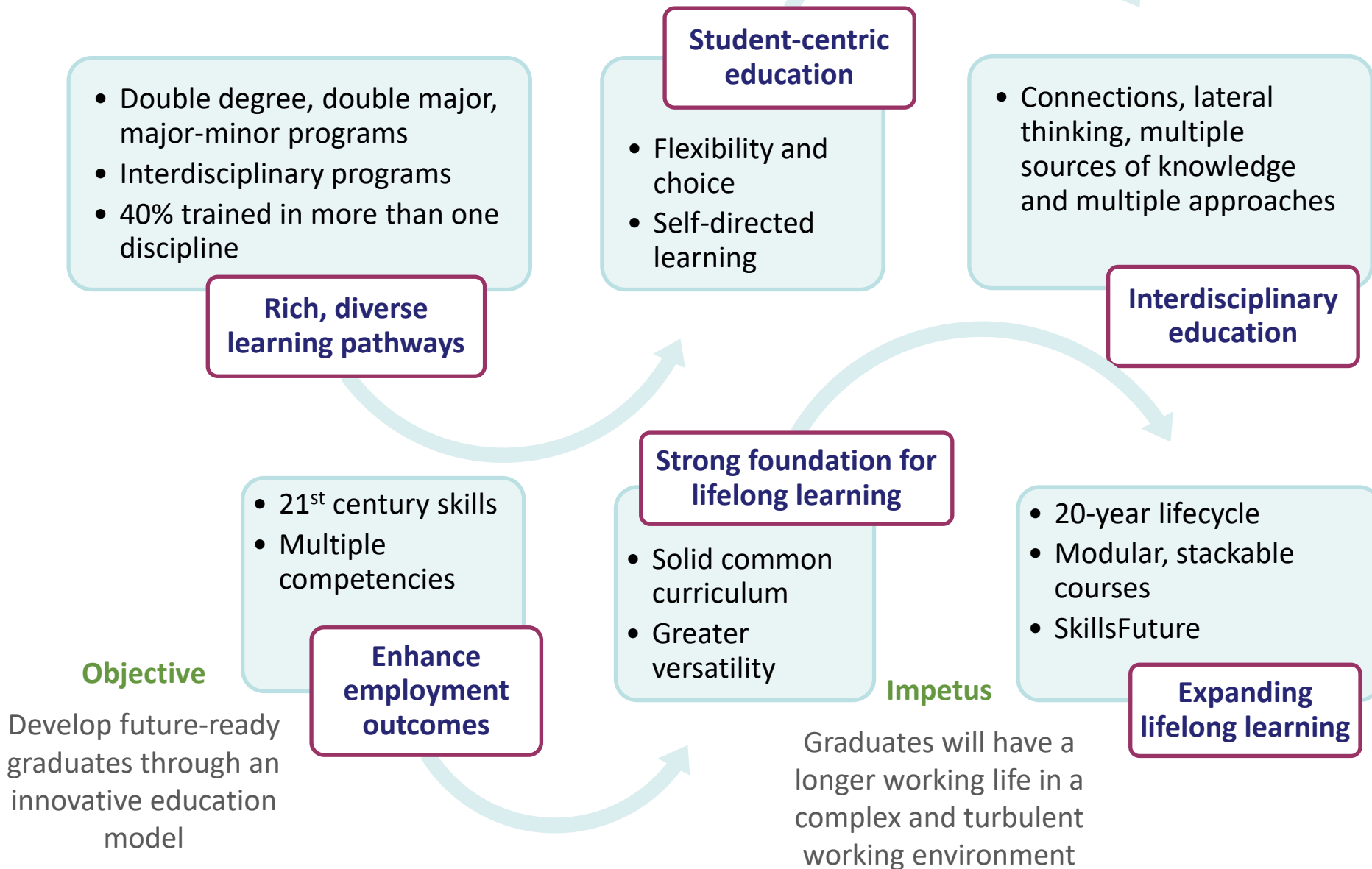
Bernard C.Y. Tan



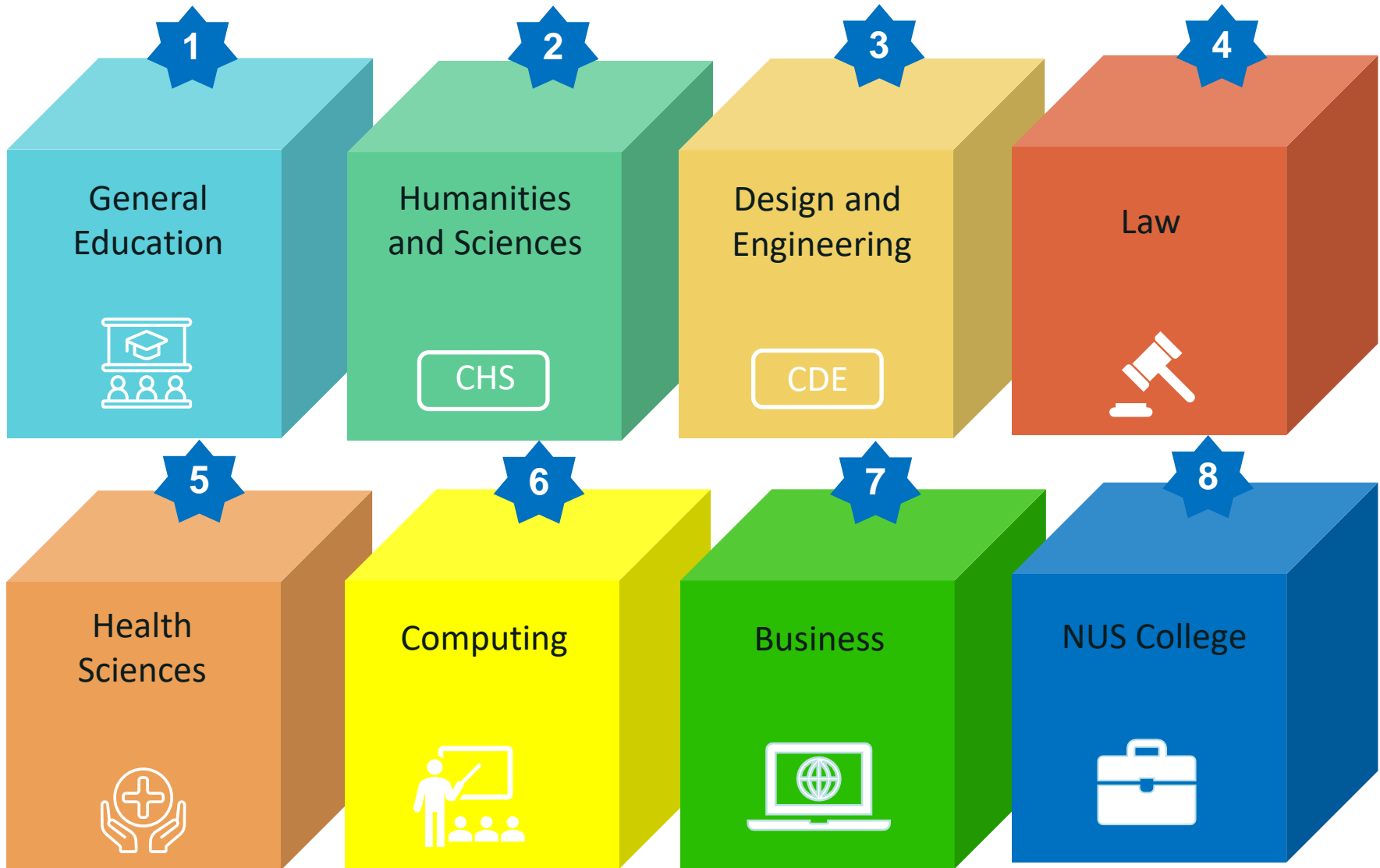
Education Reforms – Key Impetus



Education Reforms – Key Directions



Educational Reforms – Key Initiatives



General Education – Six Pillars

- **Broad-based intelligences** for academic and career pursuits
- **21st century skills** for academic and career pursuits



Cultures & Connections

Global citizenry
Adaptability to cultural contexts and environments



Critique & Expression

Thoughtful critique
Communication of ideas
Listening skills



Singapore Studies

Understanding of Singapore
Historical, economic, societal, and cultural context



Data Literacy

Quantitative reasoning
Numerical sense-making



Digital Literacy

Computational thinking
Artificial intelligence

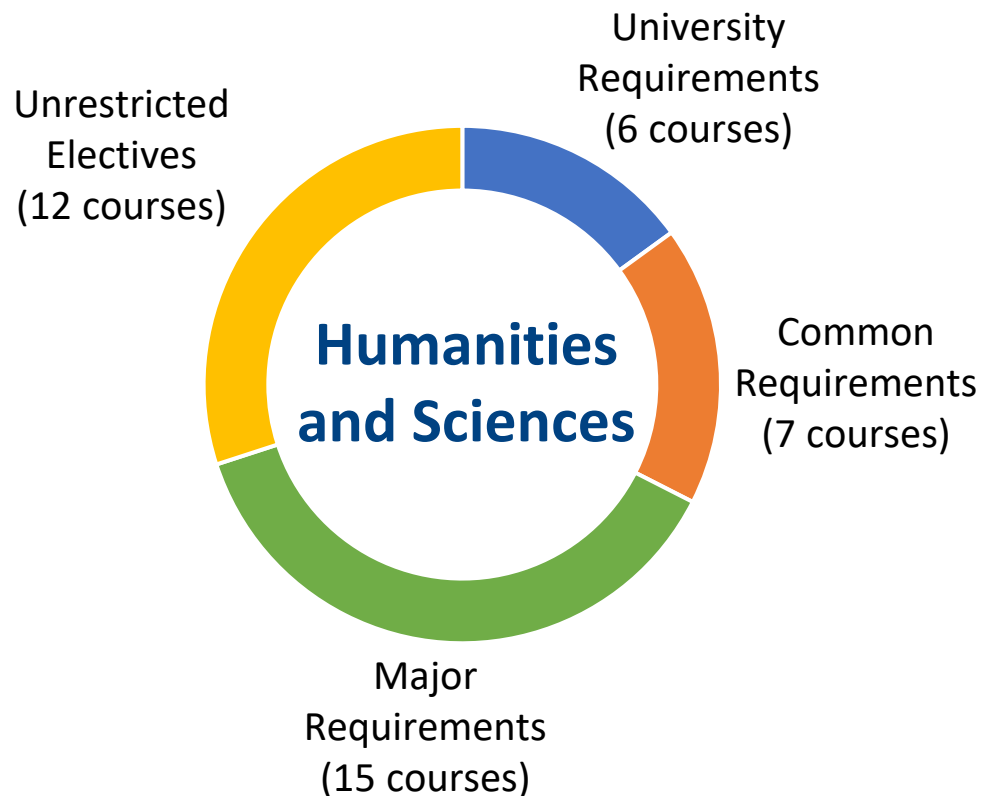


Communities & Engagement

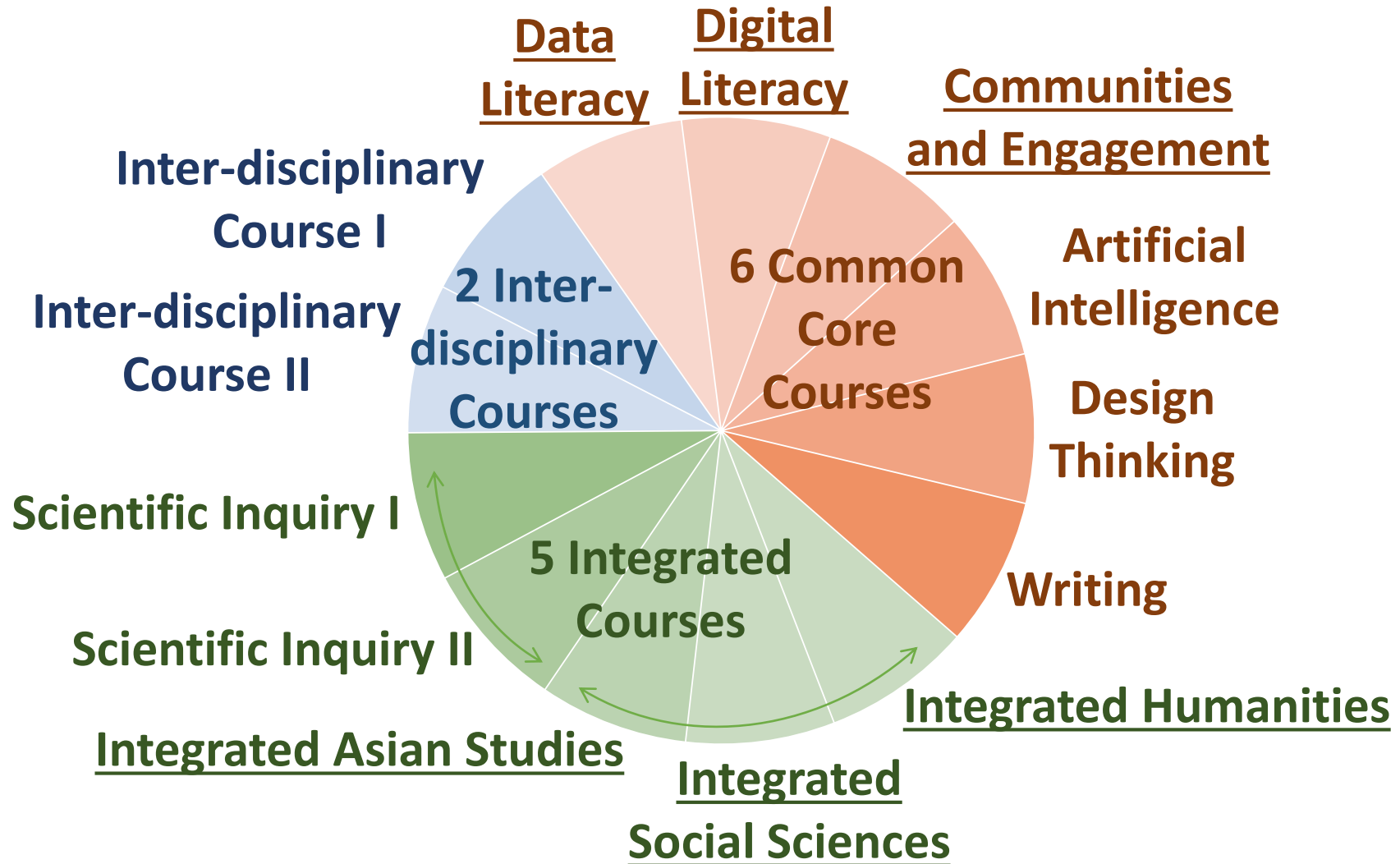
Service learning
Engagement in broader societal issues

Humanities and Sciences – Curriculum

- **Common college requirements** to build strong foundation
- **Compact major requirements** to allow essential disciplinary education
- **Expanded unrestricted electives** to facilitate choice

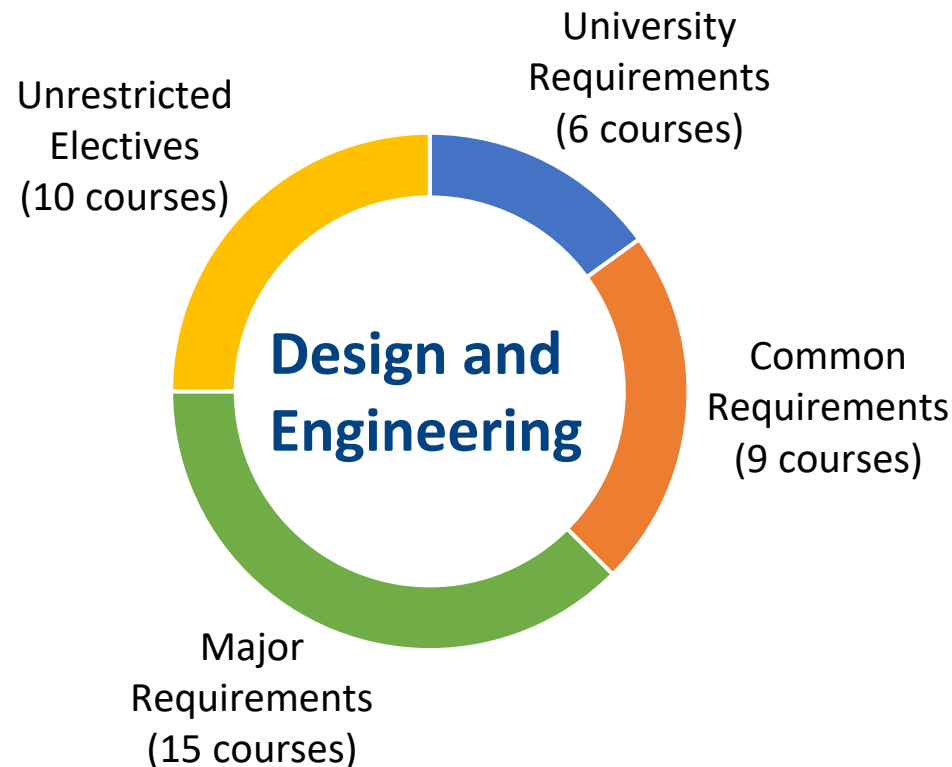


Humanities and Sciences – Requirements



Design and Engineering – Curriculum

- **Common college requirements** to build strong foundation
- **Compact major requirements** to allow essential disciplinary education
- **Expanded unrestricted electives** to facilitate choice

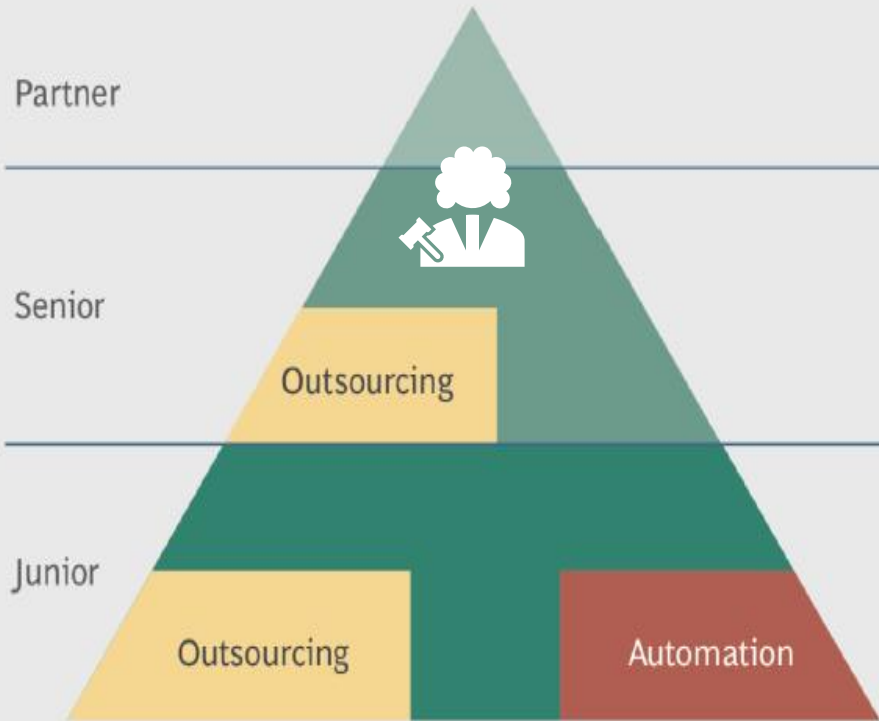


Design and Engineering – Requirements

Design Thinking	Maker Space	Systems Thinking	Artificial Intelligence	Integrated Project
Sustainable Futures	Communities & Engagement	Creating Narratives	Project Management	
Singapore Studies	Cultures & Connections	Critique and Expression	Digital Literacy	

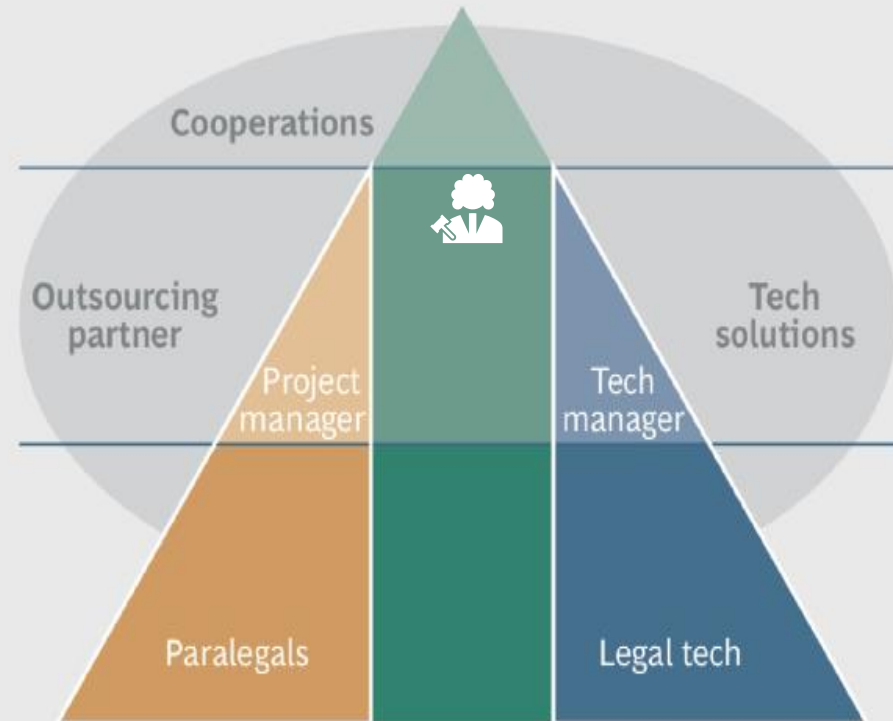
Law – Changing Environment

Today
Pyramid structure



- ▶ High ratio of junior lawyers per partner
- ▶ Junior lawyer level most impacted by outsourcing and automation

Tomorrow
Rocket structure + nonlawyer



- ▶ Low ratio of junior lawyers per partner
- ▶ Especially entry-level jobs will vanish

Other nonlawyer staff Lawyers Tech positions

Law – Key Initiatives

Attract first
year STEM
students into
Law

Incorporate data
literacy and
digital literacy in
Law degree

Offer Law double
degrees and
concurrent
degrees

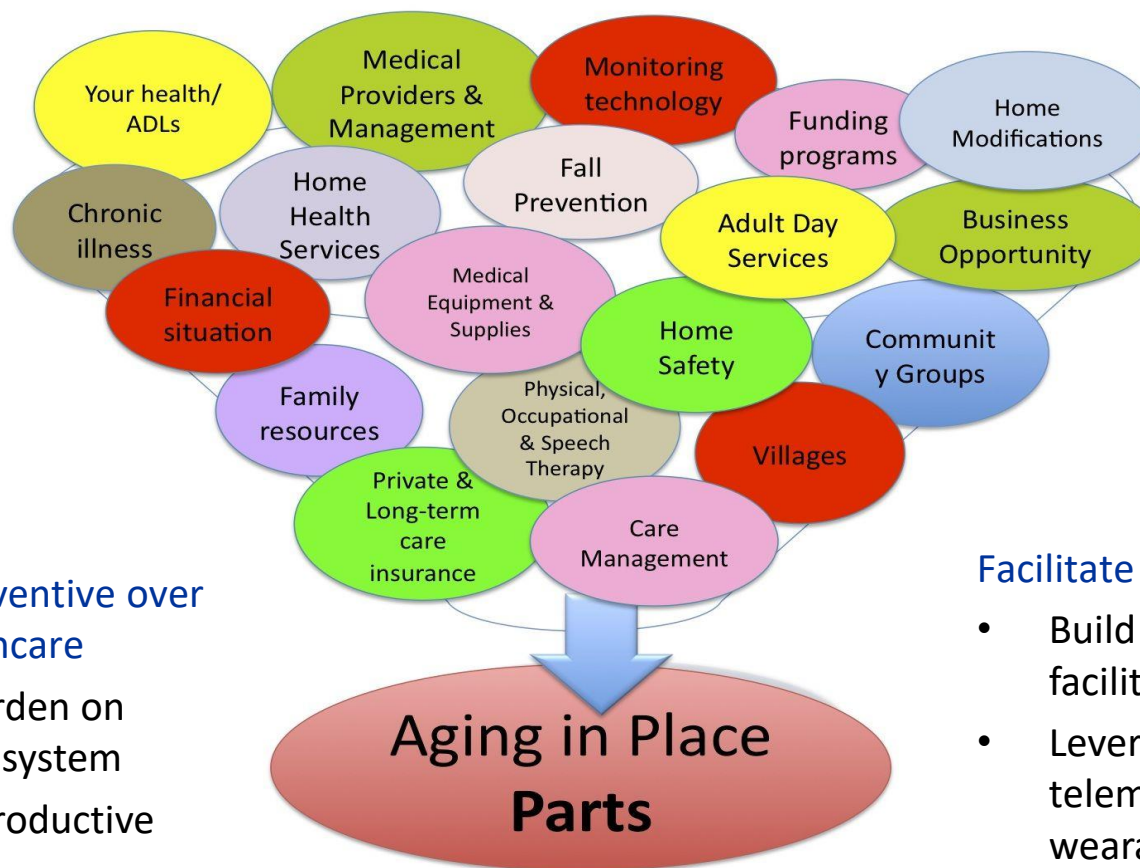
Offer Law
graduate degree
(JD) to working
professionals

Allow Law
students to do
second major or
minor

Health Sciences – Changing Environment

Confront an ageing population

- Manage many people with chronic conditions
- Manage many people with mobility challenges



Emphasize preventive over remedial healthcare

- Reduce burden on healthcare system
- Promote productive longevity

Facilitate ageing in place

- Build community care facilities and clinics
- Leverage on telemedicine and wearables

Health Sciences – Common Curriculum

Medicine, Dentistry, Nursing, and Pharmacy



Social and
Behavioural
Determinants
of Health



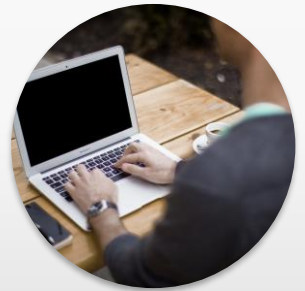
Communications
and Teamwork
in Healthcare



Ethics, Law, and
Professionalism
in Healthcare



Data
Literacy



Digital
Literacy

Computing – Curriculum

Cultures &
Connections

Critique &
Expression

Data Literacy

Digital Literacy

Singapore Studies

Communities &
Engagement

Computing
Ethics
(1 course)



Inter-
disciplinary
Exposure
(3 courses)



Major
(20 courses)



Unrestricted
Electives
(10 courses)



Business – Curriculum

Cultures &
Connections

Critique &
Expression

Data Literacy

Digital Literacy

Singapore Studies

Communities &
Engagement

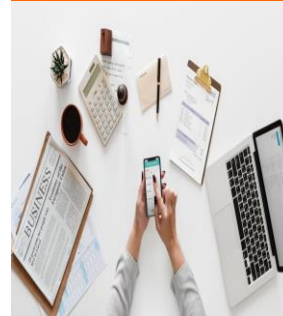
Business
Environment
(5 courses)



Field Service
Project
(1 course)



Major
(15 to 17
courses)

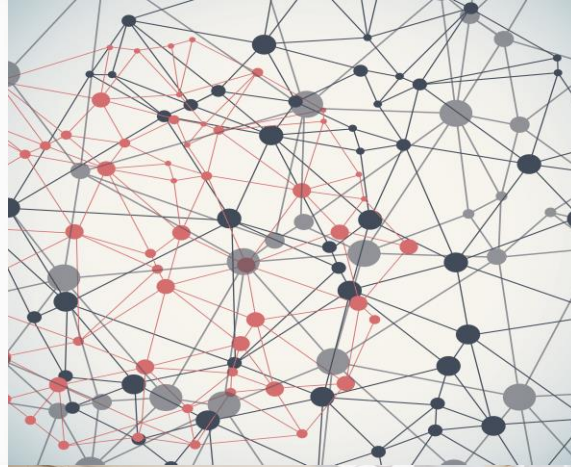


Unrestricted
Electives
(10 courses)



NUS College – Common Curriculum

Critical
Competencies
(4 courses)



Making
Connections
(6 courses)

Global
Orientation
(3 courses)



Impact
Experience
(1 course)

Curriculum Structure – Multiple Pathways

