

Fields of Study in Education in Australia

– A Summary for Prayer

Compiled by Lilian Schmid.

Below is a summary of the Department of Education in Australia for your daily prayer throughout August. (This summary is for the Australian Education System; check your nation's curriculum for your Education sphere.)

1. Please discern carefully before you proceed
2. Claim the blood of Jesus over all the Education department's sections.
3. Ask the Holy Spirit to show what to pray for and how to pray for these sections
4. Ensure that you lift the name of Jesus on high and give Him the glory
5. Prepare yourself for the battle as you discover holes set by the enemy by reading pPsalm 91 for your protection.

Start by reclaiming the sphere of Education to God:

Heavenly Father, I pray that every branch of this tree of the sphere of education is redeemed. We proclaim Your glory, Your shining light, Your words over all the sphere of education in Australia and globally. We believe what we ask for; let Your will be done in the Education sphere as it is in Heaven.

Fields of Education

1. Natural and Physical Sciences
2. Information Technology
3. Engineering and Related Technologies
4. Architecture and Building
5. Agriculture, Environmental and Related Studies
6. Health
7. Education
8. Management and Commerce
9. Society and Culture
10. Creative Arts
11. Food, Hospitality and Personal Services
12. Mixed Field Programs

1. Natural and Physical Sciences

Natural and Physical Sciences is the study of all living organisms and inanimate natural objects, through experiment, observation and deduction.

The theoretical content of Natural and Physical Sciences includes:

- atmospheric sciences

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- biological processes
- chemical reactions
- geological composition and structures
- laboratory methodology
- mathematical and statistical techniques
- observation and measurement
- scientific method
- subatomic particles and quantum mechanics
- thermodynamics and entropy

The main purpose of this broad field of education is to develop an understanding of the workings of the universe, and to extend the body of scientific knowledge.

This broad field comprises the following narrow fields (n.e.c = not elsewhere classified):

- Mathematical Sciences
 - Mathematics
 - Statistics
 - Mathematical Sciences n.e.c.
- Physics and Astronomy
 - Physics
 - Astronomy
- Chemical Sciences
 - Organic Chemistry
 - Inorganic Chemistry
 - Chemical Sciences n.e.c.
- Earth Sciences
 - Atmospheric Sciences
 - Geology
 - Geophysics
 - Geochemistry
 - Soil Science
 - Hydrology
 - Oceanography
 - Earth Sciences n.e.c.

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- Biological Sciences
 - Biochemistry and Cell Biology
 - Botany
 - Ecology and Evolution
 - Marine Science
 - Genetics
 - Microbiology
 - Human Biology
 - Zoology
 - Biological Sciences n.e.c.
- Other Natural and Physical Sciences
 - Medical Science
 - Forensic Science
 - Food Science and Biotechnology
 - Pharmacology
 - Laboratory Technology
 - Natural & Phys. Sciences n.e.c.

2. Information Technology

Information Technology is the study of the processing, transmitting and storage of information by computers.

The theoretical content of Information Technology includes:

- computation theory
- computer programming
- data format and coding
- management, storage and retrieval of information in a computer environment
- robotics programming and artificial intelligence
- systems analysis

The main purpose of this broad field of education is to develop an understanding of information systems, programming languages, information management and artificial intelligence, the ability to apply them to solve problems.

This broad field comprises the following narrow fields:

- Computer Science
 - Formal Language Theory

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- Programming
- Computational Theory
- Compiler Construction
- Algorithms
- Data Structures
- Networks and Communications
- Computer Graphics
- Operating Systems
- Artificial Intelligence
- Computer Science n.e.c.
- Information Systems
 - Conceptual Modelling
 - Database Management
 - Systems Analysis and Design
 - Decision Support Systems
 - Information Systems n.e.c.
- Other Information Technology
 - Security Science
 - Information Technology n.e.c.

Exclusions:

- Computer hardware design and construction. This is included in Detailed Field Computer Engineering.
- Computer operation and using software packages. This is included in Detailed Field Practical Computing Skills.

3. Engineering and Related Technologies

Engineering and Related Technologies is the study of the design, manufacture, installation, maintenance and functioning of machines, products, systems and structures; and the composition and processing of metals, ceramics, foodstuffs and other materials. It includes the measurement and mapping of the earth's surface and its natural and constructed features.

The theoretical content of Engineering and Related Technologies includes:

- aeronautics
- engineering and manufacturing technology
- food technology
- land information technology and remote sensing

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- materials science
- principles of design and drafting, planning and commissioning
- plant and machine maintenance

The main purpose of this broad field of education is to develop an understanding of the conversion of materials and energy, and the measurement and representation of objects, and the operation of plant, machinery and transport systems.

This broad field comprises the following narrow fields:

- Manufacturing Engineering and Technology
 - Manufacturing Engineering
 - Printing
 - Textile Making
 - Garment Making
 - Footwear Making
 - Wood Machining and Turning
 - Cabinet Making
 - Furniture Upholstery/Renovation
 - Furniture Polishing
 - Manufact. Eng. & Technology n.e.c.
- Process and Resources Engineering
 - Chemical Engineering
 - Mining Engineering
 - Materials Engineering
 - Food Processing Technology
 - Process & Resources Eng. n.e.c.
- Automotive Engineering and Technology
 - Automotive Engineering
 - Vehicle Mechanics
 - Automotive Electrics & Electronic
 - Automotive Vehicle Refinishing
 - Automotive Body Construction
 - Panel Beating
 - Upholstery & Vehicle Trimming

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- Automotive Vehicle Operations
- Automotive Eng. & Technology n.e.c.
- Mechanical and Industrial Engineering and Technology
 - Mechanical Engineering
 - Industrial Engineering
 - Toolmaking
 - Metal Fitting
 - Sheetmetal Working
 - Boilermaking and Welding
 - Metal Casting & Patternmaking
 - Precision Metalworking
 - Plant and Machine Operations
 - Mechn. Ind. Eng. & Technology n.e.c.
- Civil Engineering
 - Construction Engineering
 - Structural Engineering
 - Building Services Engineering
 - Water & Sanitary Engineering
 - Transport Engineering
 - Geotechnical Engineering
 - Ocean Engineering
 - Civil Engineering n.e.c.
- Geomatic Engineering
 - Surveying
 - Mapping Science
 - Geomatic Engineering n.e.c.
- Electrical and Electronic Engineering and Technology
 - Electrical Engineering
 - Electronic Engineering
 - Computer Engineering
 - Communications Technologies
 - Comm. Equipment Install.&Maint.

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- Powerline Installation & Maint.
- Electrical Fitting
- Refrigeration&Air Cond. Mechn.
- Electronic Equipment Servicing
- Elect & Electronic Eng & Techn n.e.c.
- Aerospace Engineering and Technology
 - Aerospace Engineering
 - Aircraft Maintenance Eng.
 - Aircraft Operation
 - Air Traffic Control
 - Aerospace Eng. & Technology n.e.c.
- Maritime Engineering and Technology
 - Maritime Engineering
 - Maritime Construction
 - Marine Craft Operation
 - Maritime Eng. & Technology n.e.c.
- Other Engineering and Related Technologies
 - Environmental Engineering
 - Biomedical Engineering
 - Fire Technology
 - Rail Operations
 - Cleaning
 - Other Eng. & Related Techn. n.e.c.

Exclusions: Architecture and building. This is included in Broad Field Architecture and Building.

4. Architecture and Building

Architecture and Building is the study of the art, science and techniques involved in designing, constructing, adapting and maintaining public, commercial, industrial and residential structures and landscapes. It includes the study of the art and science of designing and planning urban and regional environments.

The theoretical content of Architecture and Building includes:

- aesthetics and space dynamics
- building economics
- building science
- building techniques and technologies

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- construction management
- architectural design and drawing
- town planning

The main purpose of this broad field of education is to provide an understanding of integrating structural and aesthetic elements in buildings, and construction methods, techniques and materials.

This field comprises the following narrow fields:

- Architecture and Urban Environment
 - Architecture
 - Urban Design & Reg. Planning
 - Landscape Architecture
 - Interior & Environ. Design
 - Architecture & Urban Environ n.e.c.
- Building
 - Building Science and Technology
 - Building Constr. Management
 - Building Surveying
 - Building Construction Economics
 - Bricklaying and Stonemasonry
 - Carpentry and Joinery
 - Ceiling
 - Roof Fixing
 - Plastering
 - Furnishing Installation
 - Floor Covering
 - Glazing
 - Painting
 - Plumbing
 - Scaffolding & Rigging
 - Building n.e.c.

5. Agriculture, Environmental and Related Studies

Agriculture, Environmental and Related Studies is the study of the theory and practice of breeding, growing, gathering, reproducing and caring for plants and animals. It includes the study of the interaction between

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people and the environment and the application of scientific knowledge to the environment to protect it from deterioration.

The theoretical content of Agriculture, Environmental and Related Studies includes:

- crop production
- animal production and management
- environmental impact and assessment
- forestry resources management
- soil and water conservation
- aquatic resource management

The main purpose of this broad field of education is to develop an understanding of the management and use of natural resources, and the production of primary agricultural products.

This broad field comprises the following narrow fields:

- Agriculture
 - Agricultural Sciences
 - Wool Sciences
 - Animal Husbandry
 - Agriculture n.e.c.
- Horticulture and Viticulture
 - Horticulture
 - Viticulture
- Forestry Sciences
 - Forestry Studies
- Fisheries Sciences
 - Aquaculture
 - Fisheries Studies n.e.c.
- Environmental Studies
 - Land
 - Environmental Studies n.e.c.
- Other Agriculture, Environmental and Related Studies
 - Pest & Weed Control
 - Agriculture, Environmental and Related Studies n.e.c.

Exclusions: Veterinary science. This is included in Narrow Field Veterinary Science.

6. Health

Health is the study of maintaining and restoring the physical and mental well being of humans and animals.

The theoretical content of Health includes:

- disease processes and mechanisms
- restoration and maintenance of health
- diagnosis
- principles and practices of public health

The main purpose of this broad field of education is to develop an understanding of the principles and practices of identifying, treating, controlling and preventing injury and diseases. It is also involves developing an understanding of the principles and practices of providing preventative, curative, rehabilitative and palliative care.

This broad field comprises the following narrow fields:

- Medical Studies
 - General Medicine
 - Surgery
 - Psychiatry
 - Obstetrics & Gynaecology
 - Paediatrics
 - Anaesthesiology
 - Pathology
 - Radiology
 - Internal Medicine
 - General Practice
 - Medical Studies n.e.c.
- Nursing
 - General Nursing
 - Midwifery
 - Mental Health Nursing
 - Community Nursing
 - Critical Care Nursing
 - Aged Care Nursing
 - Palliative Care Nursing
 - Mother. Nursing & Fam & Child Health Nursing

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- Nursing n.e.c.
- Pharmacy
 - Pharmacy
- Dental Studies
 - Dentistry
 - Dental Assisting
 - Dental Technology
 - Dental Studies n.e.c.
- Optical Science
 - Optometry
 - Optical Technology
 - Optical Sciences n.e.c.
- Veterinary Studies
 - Veterinary Science
 - Veterinary Assisting
 - Veterinary Studies n.e.c.
- Public Health
 - Occupational Health & Safety
 - Environmental Health
 - Indigenous Health
 - Health Promotion
 - Community Health
 - Epidemiology
 - Public Health n.e.c.
- Radiography
 - Radiography
- Rehabilitation Therapies
 - Physiotherapy
 - Occupational Therapy
 - Chiropractic & Osteopathy
 - Speech Pathology
 - Audiology

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- Massage Therapy
- Podiatry
- Rehabilitation Therapies n.e.c.
- Complementary Therapies
 - Naturopathy
 - Acupuncture
 - Traditional Chinese Medicine
 - Complementary Therapies n.e.c.
- Other Health
 - Nutrition & Dietetics
 - Human Movement
 - Paramedical Studies
 - First Aid
 - Health n.e.c.

Exclusions: Medical Science. This is included in Detailed Field Medical Science.

7. Education

Education is the study of the process of learning. It includes the theories, methods and techniques of imparting knowledge and skills to others.

The theoretical content of Education includes:

- curriculum development
- processes of learning and skill acquisition
- teaching methods

The main purpose of this broad field of education is to develop an understanding of the processes and methods of teaching and learning in pre schools, schools, tertiary educational institutions and informal settings.

This broad field comprises the following narrow fields:

- Teacher Education
 - Early Childhood
 - Teacher Education: Primary
 - Teacher Education: Secondary
 - Teacher Librarianship
 - Teacher Ed.: Voc. Ed. & Training
 - Teacher Ed.: Higher Education

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- Teacher Ed.: Special Education
- English as a Second Lang. Teach.
- Nursing Ed. Teacher Training
- Teacher Education n.e.c.
- Curriculum and Education Studies
 - Curriculum Studies
 - Education Studies
- Other Education
 - Education n.e.c.

8. Management and Commerce

Management and Commerce is the study of the theory and practice of planning, directing, organising, motivating and co ordinating the human and material resources of private and public organisations and institutions. It includes the merchandising and provision of goods and services and personal development.

The theoretical content of Management and Commerce includes:

- management and administration
- human and material resources management
- sales and marketing
- finance and financial management
- human behaviour and time management

The main purpose of this broad field of education is to develop an understanding of the theory and practice of decision making and policy formation, organisational development, planning, financial management and the marketing and selling of goods and services.

This narrow field comprises the following narrow fields:

- Accounting
 - Accounting
- Business and Management
 - Human Resource Management
 - Personal Management Training
 - Organisation Management
 - Industrial Relations
 - International Business
 - Public & Health Care Admin.
 - Project Management

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- Quality Management
- Hospitality Management
- Farm Management & Abribus.
- Tourism Management
- Business & Management n.e.c.
- Sales and Marketing
 - Sales
 - Real Estate
 - Marketing
 - Advertising
 - Public Relations
 - Sales & Marketing n.e.c.
- Tourism
 - Tourism
- Office Studies
 - Secretarial & Clerical Studies
 - Keyboard Skills
 - Practical Computing Skills
 - Office Studies n.e.c.
- Banking, Finance and Related Fields
 - Insurance & Actuarial Studies
 - Investment & Securities
 - Bank. Finance & Rel. Fields n.e.c.
- Other Management and Commerce
 - Pur.
 - Valuation
 - Management & Commerce n.e.c.

9. Society and Culture

Society and Culture is the study of the physical, social and cultural organisation of human society and their influence on the individual and groups.

The theoretical content of Society and Culture includes:

- belief and value systems
- cultural expression

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- human development and behaviour
- human populations and their environments
- politics of power
- social organisation and structure
- social research methodology

The main purpose of this broad field of education is to develop an understanding of human behaviour and interaction, beliefs and values, cultural expression, and social structure and organisation.

This broad field comprises the following narrow fields:

- Political Science and Policy Studies
 - Political Science
 - Policy Studies
- Studies in Human Society
 - Sociology
 - Anthropology
 - History
 - Archaeology
 - Human Geography
 - Indigenous Studies
 - Gender Specific Studies
 - Studies in Human Society n.e.c.
- Human Welfare Studies and Services
 - Social Work
 - Children's Services
 - Youth Work
 - Care for the Aged
 - Care for the Disabled
 - Residential Client Care
 - Counselling
 - Welfare Studies
 - Human Welfare Stud. & Serv. n.e.c.

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- Behavioural Science
 - Psychology
 - Behavioural Science n.e.c.
- Law
 - Business & Commercial Law
 - Constitutional Law
 - Criminal Law
 - Family Law
 - International Law
 - Taxation Law
 - Legal Practice
 - Law n.e.c.
- Justice and Law Enforcement
 - Justice Administration
 - Legal Studies
 - Police Studies
 - Justice & Law Enforcement n.e.c.
- Librarianship, Information Management and Curatorial Studies
 - Librarianship &. Info. Mangment
 - Curatorial Studies
- Language and Literature
 - English Language
 - Northern European Languages
 - Southern European Languages
 - Eastern European Languages
 - SW Asian & North. African Langs
 - Southern Asian Languages
 - Southeast Asian Languages
 - Eastern Asian Languages
 - Australian Indigenous Langs.
 - Translating & Interpreting
 - Linguistics

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- Literature
- Language & Literature n.e.c.
- Philosophy and Religious Studies
 - Philosophy
 - Religious Studies
- Economics and Econometrics
 - Economics
 - Econometrics
- Sport and Recreation
 - Sport & Recreation Activities
 - Sports Coaching
 - Sport & Recreation n.e.c.
- Other Society and Culture
 - Family & Consumer Studies
 - Criminology
 - Security Services
 - Society & Culture n.e.c.

10. Creative Arts

Creative Arts is the study of creating and performing works of art, music, dance and drama. It includes the study of clothing design and creation, and the communication of messages in a variety of media.

The theoretical content of Creative Arts includes:

- artistic and technical aspects of audio visual communication
- artistic and technical aspects of the creation and production of art and craft, photographs and fashion apparel
- artistic and technical aspects of the creation, production and performance of music, dance and drama
- history, development and theory of the visual and performing arts

The main purpose of this broad field of education is to develop an understanding of composition, performance, artistic production, choreography, design and creativity and technical production.

This broad field comprises the following narrow fields:

- Performing Arts
 - Music
 - Drama & Theatre Studies

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- Dance
- Performing Arts n.e.c.
- Visual Arts and Crafts
 - Fine Arts
 - Photography
 - Crafts
 - Jewellery Making
 - Floristry
 - Visual Arts & Crafts n.e.c.
- Graphic and Design Studies
 - Graphic Arts & Design Studies
 - Textile Design
 - Fashion Design
 - Graphic & Design Studies n.e.c.
- Communication and Media Studies
 - Audio Visual Studies
 - Journalism
 - Written Communication
 - Verbal Communication
 - Communication & Media St n.e.c.
- Other Creative Arts
 - Creative Arts n.e.c.

Exclusions:

- Mass production of products such as fashion apparel, woven materials, pottery and furniture. These are included in Narrow Field Manufacturing Engineering and Technology.
- Computer graphics: This is included in Narrow Field Computer Science.

11. Food, Hospitality and Personal Services

Food, Hospitality and Personal Services is the study of preparing, displaying and serving food and beverages, providing hospitality services, caring for the hair and body for grooming and beautification and other personal services.

The theoretical content of Food, Hospitality and Personal Services includes:

- application and use of skin care and cosmetic products
- general beauty care

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- hair cutting, styling, colouring and treatment techniques
- housekeeping
- hygienic work practices in relation to the food and hospitality industry
- preparation, display and service of food and beverages

The main purpose of this broad field of education is to develop an understanding of the preparation of food and beverages, and the provision of hospitality services including housekeeping, cleaning and food and beverage service. It also involves developing knowledge of beautification and beauty treatments.

This narrow field comprises the following narrow fields:

- Food and Hospitality
 - Hospitality
 - Food and Beverage Services
 - Butchery
 - Baking & Pastry-making
 - Cookery
 - Food Hygiene
 - Food & Hospitality n.e.c.
- Personal Services
 - Beauty Therapy
 - Hairdressing
 - Personal Services n.e.c.

Exclusions: Massage. This is included in Detailed Field Massage Therapy.

12. Mixed Field Programs

Mixed Field Programs are programs providing general and personal development education.

The theoretical content of Mixed Field Programs includes:

- literacy and numeracy skills
- personal, social and workplace relationships

The main purpose of this broad field of education is to develop a basic understanding of reading, writing and arithmetic along with an elementary understanding of other subjects such as history, geography, natural science, social science, art and music. It also involves developing an understanding of key competencies and skills that are needed for job search activities, employment and personal survival skills.

This broad field comprises the following narrow fields:

- General Education Programs
 - General Primary and secondary education programs
 - Literacy and Numeracy Programs

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- Learning Skills Programs
- General Education Programs
- Social Skills Programs
 - Social and Interpersonal Skills Programs
 - Survival Skills Programs
 - Parental Education Programs
 - Social Skills Programs, n.e.c.
- Employment Skills Programs
 - Career Development Programs
 - Job Search Skills Programs
 - Work Practices Programs
 - Employment Skills Programs, n.e.c.
- Other Mixed Field Programs
 - Mixed Field Programs

Exclusions: Personal management training. This is included in Detailed Field Personal Management Training.

References

Government Education System <https://heimshelp.education.gov.au/Resources>

Wikipedia <https://www.wikipedia.org/>