

YEAR 1 GSMS – KEY TOPICS FOR EACH MODULE

Note:

1. You can select modules offered by other schools and CILS (Centre for Innovation & Life Skills)
2. You will **NOT** be able to select modules offered from your school.
3. Information in the following list may be subject to changes.

No.	School / Module Code / Title	Module Description	Key Topics Covered
1	<i>School of Applied Science</i> ASX111 Science Behind Skin Care	We're all conscious about the need to take care of our skin. But what is the routine that's right for your skin type? Have you ever wondered whether more expensive skin care products do a better job than the cheaper brands? This module will enlighten you on what goes into a skincare product and what is the chemistry involved. Discover the many myths as well as facts about skin care!	• Physiology of the skin • Classifications of skin types • Science behind skin care products. • Skin care routine and its rationale
2	<i>School of Applied Science</i> ASX112 Understanding Our Environment	Rapid population growth and industrialisation has placed immense pressure on our planet, causing issues like climate change, ocean acidification, water shortages, biodiversity loss, and desertification. This module addresses significant environmental issues and sustainable strategies to ensure a habitable 21st century.	• Ecological footprint and the Circular Economy • Energy usage and a low carbon economy • Water pollution and resource management • Solid waste and sustainability

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3	School of Applied Science ASX113 Fun with Chemistry	An expensive piece of clothing has a stain on it and you're wondering how to get rid of it, or maybe even create your own cleaning agents. Or perhaps you are curious to know about the chemical molecules behind the various scents? This module will bring you on a fun and exciting journey to better understand how chemistry is present in our lives and how it can affect us daily.	• How chemistry is used to explain some daily occurrences • The chemistry involved in fragrances, food preparation, reaction and spoilage. • Discovery and development of medicinal drugs • Drug detection in a forensic setting
4	School of Applied Science ASX114 Wonders of Alternative Medicines	Acupuncture, homeopathy, Ayurveda, traditional Chinese medicine... these are all examples of alternative medicines. The question is, do they really work compared to conventional medicine? This module will bring you on an exploration into the fascinating world of alternative medicines.	• Introduction to Complementary & Alternative Medicine • Traditional Chinese Medicine • Other Complementary & Alternative Therapies • Regulatory, legislative and ethical issues

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5	School of Business Management BMX111 Psychology of Mass Media	A Singaporean teenager spent more than \$10,000 of her savings in a year on JYJ, her favourite Korean pop group: Is this a result of media influences? Discover the relationship between media and human behaviour using real-life examples. You will also gain insights into what drives media consumption and its impact on everyday life.	• Media Violence • Effects of Advertising • Media & Adolescents • Fandom & Parasocial Interaction • Media Stereotyping
6	School of Business Management BMX112 Accounting for Beginners	Do financial statements seem like a mystery? Whether it's for managing a business or gaining financial literacy, understanding key accounting concepts is essential. This learning experience builds a solid foundation in basic accounting skills and financial interpretation, empowering you to make informed decisions. By the end, reading and analyzing financial statements will feel effortless.	• Fundamental Accounting Concepts • Recording Business Transactions • Preparing Financial Statements • Introduction to Financial Analysis
7	School of Business Management BMX113 Marketing Essentials	Ever wondered why the Apple iPhone is so popular? How does SIA maintain its reputation as one of the world's best airlines? This module will help you answer these questions and more. Learn the 4 Ps of marketing and find out through real live case studies how big brands such as Coke, McDonalds, Samsung, Louis Vuitton, etc. compete for the hearts, minds and wallets of their customers!	• The 4 Ps of Marketing • Basics of Brand Management • Understanding Consumer Buying Behaviour • Market Segmentation, Targeting & Positioning

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8	School of Business Management BMX114 Business Sustainability	Explore essential concepts and practices of sustainability within the corporate world. Learners will gain foundational insights into sustainability, its relevance to business, and how sustainable practices can drive success, innovation, and responsible business operations.	• Overview of Sustainability • Sustainable Business Practices • Sustainability Leadership
9	School of Business Management BMX115 Event Planning & Marketing	Have you ever wondered what goes into planning and executing events including high profile events such as F1 Grand Prix, Chingay Parade and Singapore Art Festival? Then sign up for this GSM as we take you behind the scenes to learn more about the event conceptualization, planning, marketing and event evaluation.	• An Overview of Singapore's event industry • Main stakeholders & challenges faced in general • The event planning process • Main factors in planning & marketing
10	School of Business Management BMX116 Cultural Intelligence for Business	Do we shake hands or bow when meeting the Japanese for the first time? What is the first step in doing business with the Chinese? Understand how cultural identity impacts professional communication, and learn the techniques of business negotiations in intercultural communication to give you a head-start in the global economy!	• Cross-Cultural Awareness: Culture, Culture Shock, Perception and Communication in a Global Environment • Organisational Culture: Managing Diversity, Overcoming Cultural Barriers and Conflict • Working Among Various Cultures

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11	<i>School of Design & Media</i> DXX111 Digital Photography	You love taking photos with your smart phone but haven't quite figured out how to capture anything more than a simple snapshot. Well, now you can learn to shoot better pictures in terms of composition, natural lighting, colour and angle in this module. The only requirement? A camera handphone!	• Elements of Stronger Photos • Compose with confidence • Lighting as a emotive tool • Post Process your photos in mobile
12	<i>School of Design & Media</i> DXX112 Art & Mindfulness	You are chill with your unique talent in expressing art and emotions through different mediums and techniques. This module focuses on non-striving and non-judging, i.e., mindfulness practices that engage learners now and reduces stress in an intuitive non-outcome-based session. The fun thing is that there is no wrong way to do it; show up and allow yourself to be curious about your environment. This module provides experiential learning knowledge through proven demonstrations and thoughtful guidance in sketching your world.	• Ensure good consistency for colour pigments • Prepare drawing papers for different types of work • Apply mindfulness breathing techniques for self-awareness and self-expression • Engage in simple mindfulness techniques that increase creativity
13	<i>School of Design & Media</i> DXX113 The Story of Animation	Don't miss this module if you are a cartoon enthusiast. This module will bring you on a journey of discovery as you appreciate some of the most important masterpieces of Animation and understand better the different Animation medias, techniques and trends.	• The genesis • Animation throughout the ages • Animation in different continents • Modern Animation

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14	<i>School of Design & Media</i> DXX114 Urban Sketching <i>Not offered in AY2025S2</i>	Are you curious about the amazing buildings, hidden gems, and fascinating people in our city? This module will take you on an exciting adventure to explore and capture the urban environment visually for the next generation! In this interactive module, explore the expression of ideas on paper through drawing and storytelling by discovering different places of interest. Get ready to go outside the classroom and explore the built environment with a journal, a keen eye, a fast hand, sunscreen, and a hat. Here's to capturing snapshots of these urban adventures together and the creation of a visual diary that tells our story!	• Different drawing media • Expressions of ideas visually through your drawings • Application of drawing techniques to compose a scene • Telling a story
15	<i>School of Design & Media</i> DXX115 Navigating Design Sustainability	Do you wish to know how shoes or trainers are made from ocean plastic, or how products can be made from used coffee ground? Dive into “Navigating Design Sustainability”, an exciting module offered by The School of Design and Media. This module introduces you how to combine aesthetics and function with eco-friendliness, changing how you think about making things from the start. Learn about circular design principles and how to create designs that look great and are beneficial for our planet. This module is perfect for beginners or anyone who wants to learn more on how to positively impact the world through design.	• Foundations of Sustainable Design ○ Understand the core principles that guide eco-friendly designs • Circular Design concepts ○ Learn how to design with the lifecycle in mind, from inception to rebirth • Industry insights ○ Gain perspectives on current trends and future directions in sustainable design

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16	School of Design & Media DXX116 Colourise Your life	Have you ever been stared at because the colours of what you're wearing don't match or look odd? Or wondered if your mix of colours work? This module will enable you to appreciate the use of colours to create different moods and coordinated impressions as part of everyday life. You will learn about the colour wheel, colour theory, colour psychology and more!	• Colour Theory • Colour Psychology • Colour Moods and impressions • Colour Schemes • Curiosity and creativity
17	School of Design & Media DXX117 Computer Game Logic	A frustrating element about computer games is to remain stuck at a certain level & not being able to move on. But do you know there is a logic behind this when the game was created? Find out how computer games are created and how difficulty levels are set. Perhaps you could learn a thing or 2 on how to beat your favourite game levels and advance to the final stage!	• Principle of Game Design and Logic • Game Balancing • Hardware & Software to Enhance Gameplay • Power gaming Strategies: Gamer Psychology • Power gaming Strategies: Design Features and Flaws
18	School of Design & Media DXX118 Game Art Basics	Are you interested to find out how game graphics are created? You can now learn how to create pixel art for retro-style games such as Pac man and Super Mario, and replace them with your very own designs through this module.	• Introduction to Game Art • Digital Imaging Tool Basics • Digital Game Art Asset Creation • Integrating Digital Game Art Asset
19	School of Design & Media DXX119 UX Design	UX (or User Experience) Design is to create (digital or physical) products that are useful, easy to use, and great to interact with. It's about enhancing the experience that people have while interacting with your product and making sure they find value in what you're providing. This module will introduce you to several useful techniques & tools to ensure you get the design right!	• User Experience Design Principles • User Research and Persona • Information Architecture • Prototyping • Usability Testing

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20	School of Engineering EGX111 Introduction to Quadcopters	A quadcopter is a multi-rotor aerial vehicle that is applied in diverse scenarios, like aerial photography/videography, inspections, surveillance, entertainment and even racing sports. Quadcopters have gained popularity due to their affordability and ease of control. More enthusiasts are taking up flying quadcopters as a hobby. Students will receive hands-on experience on assembly, calibration of the flight controller and piloting their assembled machines.	• Introduction ○ Working principles of a quadcopter ○ Safety measures ○ Singapore regulations on flying quadcopters • Choosing components for quadcopter • Construction and tuning parameters of quadcopter • Learning to pilot quadcopter
21	School of Engineering EGX112 3D Print Your Design	3D printing is having significant impact on the way many products are being manufactured. The technology has potential to become the largest and most significant application in the coming years. This module covers 3D printing and its endless possibilities, including practical skills for the creation of 3D objects using the technology.	• Digital Model Creation • Workflow and 3D Printing • 3D Printing Categories • 3D Printing Applications and Materials
22	School of Engineering EGX113 Harvesting Green Energy	Play a part in preserving our planet for the sake of our future generations. The world is increasingly looking to environmentally friendly and sustainable energy sources to meet future energy demands. Green energy sources, such as solar and wind energy, can be used to meet the world's (and Singapore's) growing energy needs, while ensuring environmental sustainability. Through this module, you will be able to better understand how green energy helps to reduce our carbon footprints.	• Overview of Energy Supply in Spore • Introduction to Different Green Energy Sources • Harvesting and Storage of Green Energy • Introduction to Applications of Green Technologies and Measures

No.	School / Module Code / Title	Module Description	Key Topics Covered
23	School of Engineering EGX114 Appreciation of Smart Technology in Daily Life	Singapore is constantly being referred to as a smart nation, but what exactly does that mean? In this module, you will learn about the key technology enablers and business opportunities involved in employing technology on a large scale, as well as the social benefits created by our smart nation.	• Intro to smart cities • Why we need smart cities • Internet of Things • Case studies---developments in various countries like Japan, Singapore, Indonesia, India, China, South Korea, Spain and the Netherlands
24	School of Engineering EGX115 Fascinating World of Robots	From the surface of Mars to your living room floor, robots can be found in some surprising places! Explore the world of robots through this module and discover how robots have been evolving: how they are built, the way they move, their interactions with the world and their applications in everyday life.	• Key components of Robots • Robot movement • Types of Robots and Applications • Future of Robotics
25	School of Engineering EGX116 Understanding Internet of Things	The IoT (Internet of Things) is about using the Internet to connect and operate all kinds of devices and appliances ranging from our smart phones, computers, air-cons to even washing machines. This module will help you discover the world of IoT and its impact on the way you work and live.	• Smart Devices • Internet Connectivity • Data Services • IOT Applications
26	School of Engineering EGX117 Journey To the Nano World	Look around you and you will be amazed with the emergence of nanotech products in our daily life, ranging from nano Zinc Oxide sunscreen lotion, anti-wet and scratch resistant coating, nanoelectronics and many more! When and how did Nanoscience and Nanotechnology emerge and become so pervasive? Find out through this module and go on an exploration into the Nano World.	• Nanomaterials properties • Applications of nanomaterials • Future trends in nanomaterials

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27	School of Engineering EGX118 Creative Expression Through Projection	Are you dazzled by the multi-coloured projection shows at the National Day Parade or at major sporting events? Get a glimpse into the art and science of 3D projection mapping – find out just how they are created and how you can tell interesting stories through this medium!	• What is Projection Mapping • Planning & Conceptualizing a Projection Mapping Project • Development and Projection of Projection Content
28	School of Engineering EGX119 Impact of Disruptive Innovation on Business	Ever wondered how some big companies lose their customers and market share while smaller rivals were able to gain both and succeed? This module gives insights to Disruptive Innovation, which is known to have a real impact on businesses throughout the world.	• Overview of Disruptive Innovation • Case studies of companies that have succeeded by harnessing Disruptive Innovation • Emerging Disruptive Technologies

Note: For all SEG modules mentioned above, no background knowledge of Physics is required.

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29	<i>School of Health & Social Sciences</i> HSX111 Basic Sign Language	Sign languages are one of the most important and accessible means of communication for the vast majority of deaf and people who are hard-of-hearing. This module will enable learners to communicate and participate in simple conversations with the deaf communities. In addition, you will be introduced to the history of sign language, its traditions and cultures, and will have a better understanding on how to integrate with individuals with hearing loss. Taught by a deaf instructor, you will also develop an awareness of and sensitivity to the deaf culture and learn to accommodate diversity and contribute to universal inclusion.	• Deaf awareness ○ Types and varieties of sign language ○ Deaf culture and behaviour • Art of signing ○ Manual alphabet ○ Numbers ○ Time & clock • Conversation & communication strategies ○ Greetings and introductions ○ Facial expressions and body language ○ Feelings and mental actions
30	<i>School of Health & Social Sciences</i> HSX112 Sustainability in Health & Social Care	Sustainability is not a destination but a journey. Since independence, sustainable development has been integral to Singapore's nation-building where policies have been designed with long-term sustainability in mind. Learners are provided an overview of Singapore's approach and commitment to this, with particular focus on health and social care. Gain insights to these practices and be challenged to come up with ways on how you can support and/or contribute whilst improving health and social care services.	• Introduction to Singapore's approach to sustainable development in health and social care • Initiatives and/or policies implemented by Government and other organisations • Challenges and opportunities for sustainable development • Role of health and social care professionals in promoting long-term sustainability • Experiential learning in the community

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31	<i>School of Health & Social Sciences</i> HSX113 Choices in Relationships	Do you know that positive and fulfilling relationships hold the keys to happiness in life? In this module, you will learn about the factors influencing our relationships. From friendships to family relations to romantic relationships, you will evaluate personal choices and their consequences. At the end of the module, you will gain insights into your relationship style and develop strategies to enhance personal relationships.	• Influences of relationships • Gender and relationships • Communication in relationships • Healthy vs Unhealthy Relationships

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32	School of Information Technology ITX111 Computational Thinking for Everyday Life	In an age of increasing complexities, having the skills to tackle multi-faceted problems will prove invaluable in life and the workplace. This module uses a computational thinking framework to help you enhance and reinforce your intellectual and problem-solving skills so that you are ready to face and solve everyday work and life issues!	• Key Concepts of Computational Thinking • Application of Computational Thinking • Problem Solving Process
33	School of Information Technology ITX112 The Importance of Cyber Security	With the proliferation of digital data in the 21st century, companies and individuals are facing an increasing challenge in making their data secure yet available. Join the adventure in discovering more about cyber security and how you play your part in avoiding, mitigating and defending against cyber threats in today's technologies and applications.	• Cyber security trend • Case study of security incidents • Protection ○ Virus and Worms ○ Cyber Web Attack ○ E-mail & IM • What is Encryption • Protect your documents, ID, personal information • Related Law in Singapore
34	School of Information Technology ITX113 Create Professional Business Documentations	Ever feel that you have an ingenious idea but do not know how to put up a proposal in written form? In this module, you will learn the tips & tricks to enhance your word processing skills using Microsoft Word and create professional-looking documents to impress.	• Create References • Protect and Share Documents • Advanced styles & formatting • Manage Forms, Fields and Mail Merge Operations • Create Custom Word Elements • Prepare Document for Internationalization and Accessibility

No.	School / Module Code / Title	Module Description	Key Topics Covered
35	School of Information Technology ITX114 Digital Technologies for Sustainability	Discover how digital technologies can tackle sustainability challenges and help achieve sustainability goals in our fast-paced world. This module uses real-world case studies spanning sectors like renewable energy, sustainable agriculture, and waste management to witness digital solutions in action. You will gain valuable insights into the environmental and social impacts of these technologies, and pinpoint digital technologies for promoting sustainability.	• Environmental Sustainability • Social Sustainability • Economic Sustainability • Digital Technologies • Data Analytics • Artificial Intelligence • Hybrid Cloud • Digital Ethics • Social Responsibility
36	School of Information Technology ITX115* Making Impactful PowerPoint Presentations	Do you want to see your ideas achieve higher rate of acceptance & retention? You need to level up your skills in creating impactful presentations that will WOW your audience. In this module, you will learn how to tap on advanced features in Microsoft PowerPoint to visualise your ideas so that you create dynamic and visually appealing presentations with ease.	• Display Images, Shapes, Business Diagrams, Tables & Charts • Create Multimedia and Animations • Configure Presentation Themes and Templates • Collaborate and Distribute Presentations
37	School of Information Technology ITX116* Get More Out of Spreadsheets	In today's world, spreadsheets have become a powerful tool for analysing data and making informed decisions. Mastering the use of Microsoft Excel is a must-have skill for everyone in the workplace. This course will enable you to leverage advanced Excel features to improve your work productivity and help you organise and present data effectively.	• Workbooks Management and Sharing • Custom Formats • Formulas and Functions • Scenarios • Styles and Template • Charts & Tables • Internationalization & accessibility

*** Not offered to SEG learners.**

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38	Centre for Innovation & Life Skills FGX111 Bounce Back! ABCs of Resilience	Facing difficulties in life is inevitable. Many people react to these challenging events with strong emotions and a sense of uncertainty. Yet, some people bounce back from such adversities. Discover how you can take control and bounce back when faced with adversity!	• Develop positive emotions • Assess thinking patterns • Build positive lasting relationships • Find meaning in life
39	Centre for Innovation & Life Skills FGX112 Healthy Relationships, Enriched Lives	Healthy relationships rock! Toxic relationships hurt. Go for an awareness about the importance of relationships in life, and learn skills to achieve mental, emotional and social wellness through relational engagement and communication.	• Challenges in Relationships • Role of Communication in Relationships • Maintaining and Repairing Relationships
40	Centre for Innovation & Life Skills FGX113 Emotional Intelligence	People with high emotional intelligence can understand and control their emotions. They do not allow themselves to become too angry or jealous and do not make impulsive decisions. They are also good at recognising the feelings of others. Hence, they are usually excellent at managing relationships and relating to others. This module offers tips on enhancing your emotional intelligence, and you will soon be on your way to becoming a happier person!	• Self-Awareness and Management • Social Awareness • Relationship Management

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41	Centre for Innovation & Life Skills FGX114 Developing Personal Effectiveness	Have you ever dreamt of being a highly successful person? Come embark on an exciting learning journey to maximise your personal effectiveness and achieve your goals. We will use experiential learning activities to introduce several practical strategies for becoming a more effective individual. Don't just admire the inspirational role models in your life; start on a path to becoming them!	• What is Personal Effectiveness? • Self-Awareness – Character Signature, Values & Character, Inspirational Role Models • Intrapersonal Strategies for Personal Effectiveness • Interpersonal Strategies for Personal Effectiveness
42	Centre for Innovation & Life Skills FGX121 Introduction to Sociology	Gain a better understanding of the world we live in, and learn about social causes, repercussions of common human experiences and issues, including love, identity, prejudice and more!	• What is Sociology • Culture and Society • Socialization • Deviance and Social Control • Gender Inequality and Issues
43	Centre for Innovation & Life Skills FGX115 Introduction to French Language 1	Bonjour! Do you want to learn some basic French? Oui? Then this module is for you! You will learn handy phrases you can use when you are in France or when you are making first contact with the French. A bientôt!	• French Pronunciation • Greetings • Self-introduction • Likes and Dislikes
44	Centre for Innovation & Life Skills FGX116 Introduction to German Language 1	Guten Tag! Did you know that more than 100 million people outside of Germany speak German? If you are interested in learning some basic German or thinking of studying in Germany, then this module is for you! You will learn handy phrases you can use when you are in Germany or when you are making first contact with the Germans. Bis bald!	• German Alphabet & Pronunciation • Greetings & Introduction • Numbers & Prices • Food & Drinks • Health & Sickness • Public Transport & Traveling

45	Centre for Innovation & Life Skills FGX117 Introduction to Japanese Language 1	こんにちは (konnichiwa). Are you interested in learning and speaking some basic Japanese? In this module, you will learn basic pronunciation, the Japanese writing system, introductions among other things. You will gain confidence in communicating with the Japanese using simple phrases!	• Japanese Sound Patterns and Writing Systems • Self-introduction • Greetings & First Contacts • Shopping
46	Centre for Innovation & Life Skills FGX118 Introduction to Korean Language 1	안녕하세요! Are you keen to learn some basic Korean phrases? How about the Korean alphabet? 그래요? In this module, you will learn simple phrases which you can use while travelling in Korea or when you are making first contact with the Koreans. You can even enjoy Korean drama or K-POP with this basic knowledge of Korean grammar. 곧 만나요!	• Hangeul – the Korean Alphabet • First Contact & Exchanges • At a Restaurant • Shopping
47	Centre for Innovation & Life Skills FGX119 Introduction to Malay Language	<i>Selamat datang ke kelas bahasa Melayu!</i> (Welcome to the Malay Language class!) Always wanted to converse with your friends in Malay? Need to travel to Malaysia or Indonesia for the weekend? This module is for you. It will equip you with the basics of the Malay language through situational dialogues. It will also give you a glimpse of the Malay culture and customs. <i>As this is an introductory module, only students with no prior formal training in Malay may apply.</i>	• Pronunciation and sentence structure • Basic Social Interactions • People and Daily Life • Malay Culture and Customs

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48	Centre for Innovation & Life Skills FGX120 Introduction to Tamil Language	Interested in learning and speaking basic Tamil? This beginner-friendly module is perfect for those with no prior knowledge, guiding you through essential Tamil pronunciation and fundamental communication skills. You'll begin with Romanised Tamil to master pronunciation patterns before gradually exploring the basics of Tamil script. Strengthen your cultural connections and social interactions as you gain confidence in a Tamil-speaking environment. Embark on this journey to expand your horizons, build meaningful relationships and immerse yourself in the richness of Tamil culture! <i>As this is an introductory module, only students with no prior formal training in Tamil may apply.</i>	• History • Self-introduction • Greetings and first contacts • Food & drinks • Shopping
49	Centre for Innovation & Life Skills FGX122 Introduction to Chinese Language	Are you ready to learn Chinese? Do you wish to converse with others around you in Mandarin? Starting with Hanyu Pinyin and the four tones, you will learn to speak basic Mandarin in situations involving simple interactions and daily activities. This module will also introduce you to Chinese culture and customs. <i>As this is an introductory module, only students with no prior formal training in Chinese may apply.</i>	• Hanyu Pinyin and the four tones • Basic Social Interactions • People and Daily Activities • Chinese Culture & Customs