**新雅书院本科培养方案**  
**Undergraduate Training Program of Xinya College**

\* For reference only. Please follow the latest program document released by the academic office of Xinya College.

**一、培养目标**

**I. Training Objectives**

新雅书院是清华大学第一所独立建制的本科住宿制文理学院，学院以通专融合、学科交叉为发展导向，探索世界一流、中国特色、清华风格的书院制本科人才培养新模式，提供优质的、结构性文理通识教育和富有弹性的或跨学科的专业教育, 实现通识教育与专业教育相结合，书院的课程面向、生活面向以及国际化培养相结合的人才培养目标，以培养文理基础扎实、专业知识过硬、跨学科学习和创新实践能力突出、在各行业能够发挥先锋导向作用的高素质人才。

Xinya College is Tsinghua University's first independent undergraduate residential liberal arts and sciences college. Its development is guided by the integration of general and specialized education and interdisciplinary approaches. Xinya explores a new world-class undergraduate education model that combines Chinese characteristics with Tsinghua University's distinct style. It offers high-quality, structured liberal arts and sciences general education along with flexible or interdisciplinary specialized education, achieving a synthesis of general and specialized education. The college's programs aim to intertwine life-oriented and international training, with the goal of cultivating high-caliber talents who possess a strong foundation in both the liberal arts and sciences, robust professional expertise, outstanding capabilities in interdisciplinary learning and innovative practice, and the ability to lead across various industries.

**二、培养要求**

**II. Training Requirements**

新雅书院文理兼收，学生入学时不分专业，首先接受系统的通识教育，一年后学生可自由选择（非转系）清华大学各专业方向（八年制临床医学、美术学院相关专业、理工双学位的强基计划书院除外）完成专业教育，或选择新雅书院特设的三个交叉专业——政治经济与哲学（PPE）、智能工程与创意设计（CDIE）、心理、脑与认知科学（MBM），努力成为文理基础雄厚、跨学科学习和创新能力突出的精英人才。同学自由选择专业后由新雅书院和相关院系进行联合培养，学籍在新雅书院进行管理。

Xinya College enrolls students across both arts and sciences, without specialization at entry. All students begin with a comprehensive general education. After the first year, they are free to select from various professional fields within Tsinghua University, excluding the eight-year clinical medicine program, certain majors at the Academy of Arts & Design, and the Strong Foundation Plan with dual degrees in science and engineering. Xinya College also offers three interdisciplinary programs for students to choose: Philosophy, Politics and Economics (PPE); Creative Design and Intelligent Engineering (CDIE); or Mind, Brain & Machine (MBM). These pathways aim to develop students into elite leaders with a solid foundation in liberal and scientific disciplines, as well as outstanding interdisciplinary learning and innovation skills. Once students have chosen their majors, their education is co-facilitated by Xinya College and the respective departments, with their enrollment formally managed by Xinya College.

**三、学制与学位授予**

**III. Program Duration and Degree Conferment**

本科学制四年。按照学分制管理，实行4-6年弹性学习年限。  
The undergraduate program is designed to span four years. In adherence to the credit system, a flexible study duration ranging from 4 to 6 years is available to students.

授予学位：根据学生所修专业方向授予相关的文、理、工、法等学士学位。  
Degree conferred: Based on the student's chosen major, corresponding bachelor's degrees in fields such as arts, sciences, engineering, and law will be awarded.

**四、基本学分要求**

**IV. Core Credit Requirements**

除了通识教育的62学分要求外，专业教育的学分要求见各专业培养方案的专业课程部分。  
In addition to the 62 credits required for general education, the credit requirements for specialized education can be found in the specialized curriculum section of each major's training program.

**五、课程设置与学分分布**

**V. Curriculum Design and Credit Allocation**

新雅书院推行“以通识教育为基础、通识教育与专业教育相融合”的本科书院制教育模式，课程分为通识教育和专业教育两大块。通识教育部分整合校级通识和新雅通识后要求学生选修课程不少于62学分**(58学分按照每课组要求选择，4学分在逻辑思维类、中国文明、 世界文明、文艺与审美、可能与探索五个课组内自由选择。通识课程在前6学期修完)**。专业教育部分参考相关专业院系的培养方案的专业课程部分。

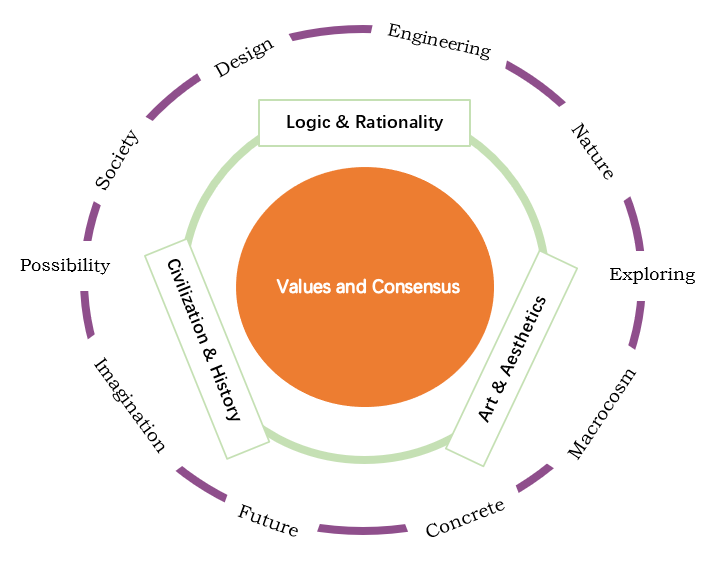
Xinya College adopts an undergraduate college education model that "emphasizes general education as the foundation while merging it with specialized education". The curriculum is categorized into two primary sections: general education and specialized education. After integrating the general education of the university with Xinya College's general education, students are required to complete at least 62 elective credits **(58 credits are selected according to the specific requirements of each course group, and 4 credits can be freely selected from five course groups: Logical Thinking, Chinese Civilization, World Civilizations, Literature and Aesthetics, and Possibility and Exploration. The general education courses must be completed within the first 6 semesters)**. The specialized education component is guided by the specialized curriculum section of the training program provided by the relevant academic departments.

1. **通识教育62学分**

**(I) General Education (62 Credits)**

新雅书院的通识教育以高质量通识课程为基础，它们具有“小班授课、经典阅读、高挑战度、学科交叉、充分研讨、有效反馈”的特色。新雅的通识教育体系基于三个主要原则：(1)以价值塑造为核心，注重社会主义价值观和人类命运共同体意识培养，达成共识形成目的通识教育目标；(2)以底层逻辑为方法，践行“无专业门槛，有学理深度”的清华通识理念，达成应对不确定性的通识教育目标；(3)以现代生活为蓝本，提供基于清华多学科优势的、让学生“开眼”的课程体系，达成弥补专业局限的通识教育目标。基于上述原则，新雅书院经过广泛调研，长期实践，系统设计，形成五大课组的通识课程体系(不低于62学分),该体系以“价值与共识”为核心，以“逻辑与理性”、“文明与历史”、“文艺与审美” 为三大支柱，以“可能与探索”为无限延展支撑，为学生提供分布式、结构性、战略性的通识性价值、能力和知识培养，为学生面对不确定性的未来奠定坚实的基础。

The general education courses at Xinya College are founded on high-quality general education offerings characterized by small class sizes, classic literature readings, challenging material, interdisciplinary integration, extensive discussions, and effective feedback mechanisms. Xinya College's general education system is founded on three main principles: (1) Prioritizing value formation, it emphasizes the cultivation of socialist values and fostering an awareness of a shared future for humanity, aiming to reach a consensus through general education; (2) Employing fundamental logic as a methodology, it embodies Tsinghua University's general education philosophy of "no professional threshold, but with academic depth", aiming to address the challenges of uncertainty through general education; (3) Drawing on the template of modern life, it offers a curriculum developed from Tsinghua University's multidisciplinary strengths, enabling students to "broaden their horizons" and achieve general education goals that compensate for professional constraints. Following the principles outlined above, Xinya College has, through extensive research, long-term practice, and systematic design, established a general education curriculum system comprising five primary course groups, totaling no less than 62 credits. This system is centered on the "Values and Consensus" course group, supported by the three foundational pillars of "Logic and Rationality", "Civilization and History", and "Literature and Aesthetics", with "Possibility and Exploration" as its expansive support structure. The system is designed to equip students with a distributed, structured, strategic education in values, skills, and knowledge, laying a solid groundwork for an unpredictable future.



新雅书院通识体系  
Xinya College General Education System

1. **价值与共识（必修30学分）**

**1. Values and Consensus (Compulsory, 30 Credits)**

1. **思想政治理论课必修18学分**

**(1) Ideological and Political Theory (Compulsory, 18 Credits)**

**A．必修17学分**

**A. Compulsory, 17 Credits**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** | |
| 10680053 | 思想道德与法治 Ideology, Morality, and Rule of Law | 3学分 3 credits |  | |
| 10680101 | 形势与政策（1）-秋 Situation and Policy (1) - Autumn | 1学分 1 credit | 组一 Group 1 | 两组选一组 Select one out of two |
| 10680131 | 形势与政策（2）春 Situation and Policy (2) - Spring | 1学分 1 credit |
| 10680121 | 形势与政策（1）-春 Situation and Policy (1) - Spring | 1学分 1 credit | 组二 Group 2 |
| 10680111 | 形势与政策（2）-秋 Situation and Policy (2) - Autumn | 1学分 1 credit |
| 10610193 | 中国近现代史纲要 Outline of Modern and Contemporary History of China | 3学分 3 credits |  | |
| 10680073 | 马克思主义基本原理 Basic Principles of Marxism | 3学分 3 credits |  | |
| 10680032 | 毛泽东思想和中国特色社会主义理论体系概论 An Introduction to Mao Zedong Thought and Theoretical System of Socialism with Chinese Characteristics | 2学分 2 credits |  | |
| 10680022 | 习近平新时代中国特色社会主义思想概论 An Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era | 2学分 2 credits |  | |
| 10680092 | 思政实践 Ideological and Political Practice | 2学分 2 credits | 建议大一暑期选修 Recommended summer elective for freshmen | |

注：课名中含秋的课程只在秋季排课和选课，课名中含春的课程只在春季排课和选课。  
Note: Courses with "Autumn" in the course name are only scheduled and selectable in the autumn, and courses with "Spring" in the course name are only scheduled and selectable in the spring.

形势与政策（1）-秋或形势与政策（1）-春，二选一，建议学生在大一学年修读。  
Situation and Policy (1) - Autumn or Situation and Policy (1) - Spring; choose one. It is recommended to be taken during the freshman year.

形势与政策（2）-秋和形势与政策（2）-春，二选一，学生自主选择修读学期。  
Situation and Policy (2) - Autumn or Situation and Policy (2) - Spring; choose one. Students have the autonomy to select the semester.

**B．限选1学分**

**B. Distributional Elective, 1 Credit**

| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| --- | --- | --- | --- |
| 00680201 | 社会主义发展史（“四史”） History of Socialist Development ("Four Histories") | 1学分 1 credit | 学生根据开课情况自主选择修读学期和课程 Students choose their own semester and courses according to the availability of courses |
| 00680221 | 中国共产党历史（“四史”） History of the Communist Party of China ("Four Histories") | 1学分 1 credit |
| 00680231 | 中华人民共和国史（“四史”） History of the People's Republic of China ("Four Histories") | 1学分 1 credit |
| 00680211 | 改革开放史（“四史”） History of Reform and Opening-up ("Four Histories") | 1学分 1 credit |
| 00050222 | 生态文明十五讲 Fifteen Lectures on Ecological Civilization | 2学分 2 credits |
| 00691762 | 当代科学中的哲学问题 Philosophical Issues in Contemporary Science | 2学分 2 credits |
| 00050071 | 环境保护与可持续发展 Environmental Protection and Sustainable Development | 1学分 1 credit |
| 00670091 | 新闻中的文化 Culture in the News | 1学分 1 credit |
| 10691402 | 悦读马克思 Reading Marx for Pleasure | 2学分 2 credits |
| 00691312 | 当代法国思想与文化研究 Contemporary French Thought and Cultural Studies | 2学分 2 credits |
| 10691412 | 孔子和鲁迅 Confucius and Lu Xun | 2学分 2 credits |
| 10691452 | 媒介史与媒介哲学 Media History and Philosophy | 2学分 2 credits |
| 01030192 | 教育哲学 Educational Philosophy | 2学分 2 credits |
| 00460072 | 中国历史地理 Chinese Historical Geography | 2学分 2 credits |
| 14700073 | 西方近代哲学 Modern Western Philosophy | 3学分 3 credits |
| 10460053 | 气候变化与全球发展 Climate Change and Global Development | 3学分 3 credits |
| 00590062 | 腐败的政治经济学 Political Economy of Corruption | 2学分 2 credits |
| 00600022 | 中美贸易争端和全球化重构 Sino-US Trade Dispute and Globalization Restructuring | 2学分 2 credits |
| 00701162 | 西方政治制度 Western Political Systems | 2学分 2 credits |
| 10700043 | 社会学的想像力：结构、权力与转型 Sociological Imagination: Structure, Power, and Transformation | 3学分 3 credits |
| 02090051 | 当代国防系列讲座 Contemporary Defense Lecture Series | 1学分 1 credit |
| 02090091 | 高技术战争 High-Tech Warfare | 1学分 1 credit |
| 00590043 | 中国国情与发展 China's National Conditions and Development | 3学分 3 credits |
| 00680042 | 中国政府与政治 Chinese Government and Politics | 2学分 2 credits |
| 00701344 | 国际关系分析 International Relations Analysis | 4学分 4 credits |
| 00701512 | 中国宏观经济分析 China's Macroeconomic Analysis | 2学分 2 credits |
| 10700142 | 现代化与全球化思想研究 Research on the Thought of Modernization and Globalization | 2学分 2 credits |

注：①**港澳台学生**必修：思想道德与法治， 3学分，其余课程不做要求。

②以上思政课对国际学生不做要求。

Note: ① **Students from Hong Kong, Macau, and Taiwan** are required to take the "Ideology, Morality, and Rule of Law" course, which is worth 3 credits. No other courses are mandatory for them.

② The aforementioned ideological and political courses **are not required for** international students.

1. 军事课程必修4学分

(2) Military Courses (Compulsory, 4 Credits)

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| --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 12090052 | 军事理论 Military Theory | 2学分 2 credits |  |
| 12090062 | 军事技能 Military Skills | 2学分 2 credits |  |

注：**台湾学生**在以上军事课程4学分和台湾新生集训3学分中选择，不少于3学分。  
**国际学生**必修国际新生集训课程。

Note: **Taiwan students** must choose a minimum of 3 credits from the 4 credits of military courses and the 3 credits of Taiwan freshman orientation.

**International students** are required to take the compulsory international freshman orientation course.

1. **体育必修6门，4学分**

**(3) Six Compulsory Physical Education Courses (4 Credits)**

第1-4学期的体育(1)-(4)为必修，每学期1学分；第5-8学期的体育专项不设学分，其中第5-6学期为限选，第7-8学期为任选。

Physical education courses (1)-(4) in the 1st to 4th semesters are compulsory, with 1 credit each semester; physical education in the 5th to 8th semesters does not carry credits, where those in the 5th to 6th semesters are distributional electives and those in the 7th to 8th semesters are free electives.

**学生大三结束申请推荐免试攻读研究生需完成第1-4学期的体育必修课程并取得学分。本科毕业必须通过学校体育部组织的游泳测试。**体育课的选课、退课、游泳测试及境外交换学生的体育课程认定等请详见学生手册《清华大学本科体育课程的有关规定及要求》。

**Students wishing to apply for exemption from the entrance exam for graduate studies after their junior year must complete and earn credits for the compulsory physical education courses during semesters 1 to 4. Undergraduates must pass the swimming test conducted by the university's Division of Sports Science and Physical Education to be eligible for graduation.** For further details on physical education course enrollment, withdrawal procedures, swimming test, and the recognition of courses for exchange students, please refer to the student handbook "Regulations and Requirements for Undergraduate Physical Education Courses at Tsinghua University".

**（4）劳育必修2学分**

**(4) Labor Education (Compulsory, 2 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 34700012 | 社会调查（夏季京外劳动耕读） Social Survey (Labor-based Study outside Beijing in Summer) | 2学分 2 credits | 二选一 Select one out of two |
| 14700312 | 劳动耕读实践（春秋京内劳动耕读） Labor-based Study Practice (Labor-based Study within Beijing during the Spring and Autumn Period) | 2学分 2 credits |

**（5）书院共同体必修2学分**

**(5) College Community (Compulsory, 2 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 14700351 | 新雅院课（1） Xinya College Course (1) | 1学分 1 credit | 必修，每小班10-15人 Compulsory, 10-15 students per class |
| 14700361 | 新雅院课（2） Xinya College Course (2) | 1学分 1 credit | 必修 Compulsory |

**2. 逻辑与理性（必修≥10学分）**

**2. Logic and Rationality (Compulsory, ≥ 10 Credits)**

1. **数学和物理思维类必修≥6学分**

**(1) Mathematical and Physical Thinking (Compulsory, ≥ 6 Credits)**

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| --- | --- | --- | --- | --- |
| **类别** **Category** | **适用院系** **Applicable Departments** | **数学** **Mathematics** | | **物理** **Physics** |
| **微积分** **Calculus** | **线性代数** **Linear Algebra** |
| **文社** **Humanities and Social Sciences** | PPE、法学； 历史学、哲学、汉语言文学、马克思主义理论、英语（含世文班）等① PPE, Law; History, Philosophy, Chinese Language and Literature, Marxist Theory, English (including World Literature and Culture Experimental Class), etc.① | 文科数学 Mathematics for Liberal Arts | 无 None | 物理学（3）或物理学概论 Physics (3) or Introduction to Physics |
| 经济与金融（含会计、保险方向）（经管学院）；社会学、国际政治、经济学（至善书院） 等 Economics and Finance (including Accounting, Insurance) (School of Economics and Management); Sociology, International Politics, Economics (Zhishan College), etc. | 微积分C（1） Calculus C (1)  （2） (2) | 线性代数（社科） Linear Algebra (Social Sciences) |
| **工** **Engineering** | 建筑学、城乡规划 Architecture, Urban and Rural Planning | 微积分B（1）或微积分C（1） Calculus B (1) or Calculus C (1)  （2） (2) | 无 None | 物理学（3）或物理学概论注：该课与建筑学院开设的相关物理课（如建筑力学、建筑热环境）不能相互替代 Physics (3) or Introduction to Physics; Note: This course cannot be substituted with related physics courses offered by the School of Architecture (such as Architectural Mechanics, Building Thermal Environment) |
| 土木大类 Civil Engineering Category | 微积分B（1） Calculus B (1)  （2） (2) | 线性代数 Linear Algebra | 大学物理CE +物理学（3） +物理实验A1 College Physics CE + Physics (3) + Physics Experiment A1 |
| CDIE ；化学工程、材料工程、 环境工程、机械工程、车辆工程等 CDIE; Chemical Engineering, Materials Engineering, Environmental Engineering, Mechanical Engineering, Vehicle Engineering, etc. | 物理学（1）（2）（3） Physics (1) (2) (3) |
| 计算机科学与技术、自动化、电子信息科学与技术、微电子科学与工程、软件工程； 生物医学工程、电气工程及其自动化、航空航天工程（笃实书院）、 工业工程、工程力学、工科实验班（为先书院）、工科实验班 （秀钟书院）、工科实验班（笃实书院）等② Computer Science and Technology, Automation, Electronic Information Science and Technology, Microelectronics Science and Engineering, Software Engineering; Biomedical Engineering, Electrical Engineering and Automation, Aerospace Engineering (Dushi College), Industrial Engineering, Engineering Mechanics, Engineering Experimental Class (Weixian College), Engineering Experimental Class (Xiuzhong College), Engineering Experimental Class (Dushi College), etc.② |
| **理** **Science** | MBM、化学、化学生物学、生物科学等 MBM, Chemistry, Chemical Biology, Biological Sciences, etc. | 微积分B（1） Calculus B (1)  （2） (2) | 线性代数 Linear Algebra | 物理学（1）（2）（3） Physics (1) (2) (3) |
| 数学与应用数学； 物理学、数理基础科学等② Mathematics and Applied Mathematics; Physics, Fundamental Science of Mathematics and Physics, etc.② |

注：此处列出的是新雅培养方案对各专业方向数学物理课程的最低学分要求， 应按不少于最低学分要求选课，并与后续所选专业的要求匹配， 可用高难度课程替代低难度课程。  
Note: Listed here are the minimum credit requirements for mathematics and physics courses for each major direction in Xinya College's training program. Courses should be selected according to not less than the minimum credit requirements and match the subsequent selected majors' requirements. High-difficulty courses can substitute for lower difficulty courses.

① 当院系专业对数学物理课程的要求**低于**新雅的最低要求时，**需满足新雅的要求**；  
① When the requirements of the department for mathematics and physics courses are **lower than** the minimum requirements of Xinya College, **students must meet Xinya College's requirements**;

② 当院系专业对数学物理课程的要求**高于**新雅的最低要求时，**需满足院系专业的要求**；  
② When a department's requirements for mathematics and physics courses are **higher than** Xinya College's minimum requirements, **the department's requirements must be met;**

③ 各专业培养方案可通过“**清华大学信息门户-教学门户-专业与培养-培养方案**”查询。  
③ The curriculum for each major can be **accessed through the "Tsinghua University Information Portal - Teaching Portal - Major and Training - Training Program"** section.

**数理课程难度阶梯，由高至低**

**The hierarchy of difficulty for mathematics and physics courses, from high to low**

| **微积分** **Calculus** | **线性代数** **Linear Algebra** | **物理（理论）** **Physics (Theory)** | **物理（实验）** **Physics (Experiment)** |
| --- | --- | --- | --- |
| 数学分析  Mathematical Analysis  (1)(2)(3)[5+5+5] | 高等 线性代数 Advanced Linear Algebra  (1)(2)[4+4] | 费曼 物理 学 Feynman Physics  (1)(2)(3)[5+5+4]  基础 物理 学 Basic Physics  (1)(2)(3)[5+4+5] | 基础物理实验A Basic Physics Experiment A |
| 高等微积分(1)(2)[5+5] Advanced Calculus (1) (2) [5+5] | 线性代数(理科类)[4] Linear Algebra (Science) [4] | 大学物理A(1)(2)[5+5] (定向生) College Physics A (1) (2) [5+5] (Targeted-area Students) | 物理实验A Physics Experiment A |
| 微积分A(1)(2)[5+5] Calculus A (1) (2) [5+5] | 线性 代数 / 线性 代数 (英)[4] Linear Algebra / Linear Algebra (English) [4] | 物理学(1)(2)(3)[4+4+2] Physics (1) (2) (3) [4+4+2] | 物理实验B Physics Experiment B |
| 微积分B(1)(2)[5+4] Calculus B (1) (2) [5+4] | 线性代数(社科类)[4] Linear Algebra (Social Sciences) [4] | 大学物理A(1)(2)[4+4]/ College Physics A (1) (2) [4+4]/  大学物理B(1)(2)[4+4]/ 大学物理（英） [4+4] College Physics B (1) (2) [4+4]/ College Physics (English) [4+4] |  |
| 微积分C(1)(2)[3+3] Calculus C (1) (2) [3+3] | / | 物理学概论（4） Introduction to Physics (4) |  |
| 文科数学[4] Mathematics for Liberal Arts [4] | / | / |  |

**物理课可替代方案**

**Alternative Options for Physics Courses**

|  |  |
| --- | --- |
| **课程** **Course** | **可用以下课程替代** **Alternative Options** |
| 物理学（1）（2）（3） Physics (1) (2) (3) | 大学物理A(1)(2) / B(1)(2) + 物理实验A(1) / B(1)(2)+物理学概论/物理学（3） College Physics A (1) (2) / B (1) (2) + Physics Experiment A (1) / B (1) (2) + Introduction to Physics/Physics (3) |
| 物理学（3） Physics (3) | 物理学概论 Introduction to Physics |

1. **计算思维类必修≥2学分**

**(2) Computational Thinking (Compulsory, ≥ 2 Credits)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **类别** **Category** | **课程号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 文社类 Humanities and Social Sciences  （包含建筑类） (Including Architecture) | 20740132 | 计算机文化基础A Fundamentals of Computer Culture A | 2学分 2 credits | 四选一 Select one out of four |
| 20740073 | 计算机程序设计基础 Fundamentals of Computer Programming | 3学分 3 credits |
| 00740282 | 计算机程序设计基础（python） Fundamentals of Computer Programming (Python) | 2学分 2 credits |
| 30511073 | 计算机语言与程序设计 Computer Languages and Programming | 3学分 3 credits |
| 理工类 Science and Engineering | 20740102 | 计算机程序设计基础 Fundamentals of Computer Programming | 2学分 2 credits | 四选一 Select one out of four |
| 30240233 | 程序设计基础 Fundamentals of Programming | 3学分 3 credits |
| 00240362 | 计算思维 Computational Thinking | 2学分 2 credits |
| -- | 信息方向专业课 Information Specialization Course | ≥2学分 ≥2 credits |

注：可用同档次或高档次的信息类课程替代。信息类专业（计算机、自动化、电子、软件等）完成专业要求的信息类课程就满足要求，可免修本组课程。  
Note: Information courses of the same or higher level can substitute. Students majoring in information fields (computer, automation, electronics, software, etc.) who have completed their major's required information courses meet the requirements and are exempt from this course group.

1. **逻辑思维类必修≥2学分**

**(3) Logical Thinking (Compulsory, ≥ 2 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 10691342 | 写作与沟通 Writing and Communication | 2学分 2 credits |  |
| 30690524 | 逻辑、语言与哲学 Logic, Language, and Philosophy | 4学分 4 credits |  |
| 10691603 | 逻辑与思维 Logic and Thought | 3学分 3 credits |  |
| 20690063 | 数理逻辑 Mathematical Logic | 3学分 3 credits |  |
| 14700073 | 西方近代哲学\* Modern Western Philosophy\* | 3学分 3 credits |  |
| 00590072 | 讲好知识的故事\* Crafting Knowledge Stories\* | 2学分 2 credits |  |
| 14700383 | 系统的世界 The World of Systems | 3学分 3 credits |  |
| 00160102 | 思考的方法 Methods of Thinking | 2学分 2 credits |  |
| 10700183 | 心智探秘 Mental Exploration | 3学分 3 credits | MBM专业必修 Compulsory for MBM |

注：标\*为清华大学通识荣誉课。

Note: Those marked with "\*" are general education honors courses at Tsinghua University.

**3. 文明与历史（必修≥12学分）**

**3. Civilization and History (Compulsory, ≥ 12 Credits)**

1. **中国文明组必修≥2学分**

**(1) Chinese Civilization Group (Compulsory, ≥ 2 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 10691233 | 中国古代文明 Ancient Chinese Civilization | 3学分 3 credits |  |
| 10660043 | 经典与想象：中国古代传说新读 Classics and Imagination: A New Reading of Ancient Chinese Legends | 3学分 3 credits |  |
| 10691093 | 《史记》研读 Study of *Records of the Grand Historian* | 3学分 3 credits |  |
| 00690882 | 《资治通鉴》导读\* Introduction to *Zizhi Tongjian*\* | 3学分 3 credits |  |
| 14700293 | 中国哲学（1） Chinese Philosophy (1) | 3学分 3 credits |  |
| 44700063 | 中国哲学（2） Chinese Philosophy (2) | 3学分 3 credits |  |
| 14700233 | 《庄子》研读 Study of *Zhuangzi* | 3学分 3 credits |  |
| 10691173 | 《孟子》研读 Study of *Mencius* | 3学分 3 credits |  |
| 00691583 | 佛教哲学概论 Introduction to Buddhist Philosophy | 3学分 3 credits |  |
| 40691213 | 经学概论 Introduction to Confucianism | 3学分 3 credits |  |
| 14700282 | 中国传统人伦 Traditional Chinese Ethical Relations | 2学分 2 credits |  |

注：标\*为清华大学通识荣誉课。

Note: Those marked with "\*" are general education honors courses at Tsinghua University.

1. **世界文明组必修≥2学分**

**(2) World Civilizations Group (Compulsory, ≥ 2 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 14700093 | 古希腊文明 Ancient Greek Civilization | 3学分 3 credits |  |
| 14700343 | 犹太文明 Jewish Civilization | 3学分 3 credits |  |
| 14700333 | 印度文明 Indian Civilization | 3学分 3 credits |  |
| 10691113 | 西方思想经典与现代社会\* Western Thought Classics and Modern Society\* | 3学分 3 credits |  |
| 14700253 | 西方古典学基础(古希腊罗马文明) Fundamentals of Western Classics (Ancient Greek and Roman Civilization) | 3学分 3 credits |  |
| 14700264 | 西方古典学基础(古希腊语) Fundamentals of Western Classics (Ancient Greek Language) | 4学分 4 credits |  |
| 14700274 | 西方古典学基础(古典拉丁语) Fundamentals of Western Classics (Classical Latin Language) | 4学分 4 credits |  |
| 14700112 | 大学之道 The Way of the University | 2学分 2 credits |  |
| 44700043 | 西方哲学（1） Western Philosophy (1) | 3学分 3 credits |  |
| 34700033 | 西方哲学（2） Western Philosophy (2) | 3学分 3 credits |  |
| 40690943 | 伦理学导论 Introduction to Ethics | 3学分 3 credits |  |
| 14700243 | 哲学的哲学 Philosophy of Philosophy | 3学分 3 credits |  |

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Note: Those marked with "\*" are general education honors courses at Tsinghua University.

**(3) 外语语言组（一外英语学生必修8学分，一外其他语种学生必修6学分）**  
**(3) Foreign Language Group (8 credits for students whose primary foreign language is English, 6 credits for students with another primary foreign language)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **学生** **Students** | **课组** **Course Group** | **课程** **Course** | **课程面向** **Course Orientation** | **学分要求** **Credit Requirements** |
| 一外英语学生 Students with English as primary foreign language | 英语综合能力课组 Comprehensive English Skills Group | 英语综合训练（C1） Comprehensive English Training (C1) | 入学分级考试1级 Entrance Grading Examination Level 1 | 必修 Compulsory  4学分 4 credits |
| 英语综合训练（C2） Comprehensive English Training (C2) |
| 英语阅读写作（B） English Reading and Writing (B) | 入学分级考试2级 Entrance Grading Examination Level 2 |
| 英语听说交流（B） English Listening, Speaking, and Communication (B) |
| 英语阅读写作（A） English Reading and Writing (A) | 入学分级考试3级、4级 Entrance Grading Examination Levels 3 and 4 |
| 英语听说交流（A） English Listening, Speaking, and Communication (A) |
| 第二外语课组 Second Foreign Language Group | 详见选课手册 Refer to the course selection manual for details | | 限选 Distributional elective  4学分 4 credits |
| 外国语言文化课组 Foreign Language and Culture Group |
| 外语专项提高课组 Foreign Language Special Enhancement Group |
| 一外小语种学生 Students with minority languages as their primary foreign language | | 详见选课手册 Refer to the course selection manual for details | | 6学分 6 credits |

（公外课程免修、替代等详细规定见教学门户-清华大学本科生公共外语课程设置及修读管理办法。）

(For detailed regulations on exemption and substitution of public foreign language courses, please refer to the Tsinghua University Undergraduate Public Foreign Language Course Arrangement and Study Management Guidelines on the teaching portal.)

注：**国际学生**要求必修8学分语言课程，要求其中4学分为国际生汉语水平提高系列课程，4学分非母语公共外语课程。

Note: **International students** are required to complete 8 credits of language courses, which include 4 credits of Chinese proficiency enhancement series courses for international students, and 4 credits of non-native public foreign language courses.

**4. 文艺与审美（必修≥2学分）**

**4. Art and Aesthetics (Compulsory, ≥ 2 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 10691143 | 中国现代文学经典\* Classics of Modern Chinese Literature\* | 3学分 3 credits |  |
| 30690873 | 中国现当代文学经典研读 Study on Classics of Modern and Contemporary Chinese Literature | 3学分 3 credits |  |
| 10691123 | 文学名作与写作训练 Great Literary Works and Writing Practice | 3学分 3 credits |  |
| 14700013 | 自我·他人·社会 Self, Others, and Society | 3学分 3 credits |  |
| 14700083 | 莎士比亚与政治哲学 Shakespeare and Political Philosophy | 3学分 3 credits |  |
| 14700143 | 十九世纪英国文学与艺术\* Nineteenth-Century English Literature and Art\* | 3学分 3 credits |  |
| 14700053 | 英国文学的人文理解 A Humanistic Perspective on English Literature | 3学分 3 credits |  |
| 14700103 | 文学作品导读：西方现代小说 Introduction to Literary Works: Western Modern Novels | 3学分 3 credits |  |
| 14700202 | 山水画的士人世界 The Scholarly World in Landscape Painting | 2学分 2 credits |  |
| 14700222 | 风景与中国文人文化 Landscape and the Culture of Chinese Literati | 2学分 2 credits |  |
| 14700012 | 现代设计史 History of Modern Design | 2学分 2 credits |  |
| 10000034 | 建筑与城市文化\* Architecture and Urban Culture\* | 4学分 4 credits |  |
| 14700152 | [世界电影十六讲](https://webvpn.tsinghua.edu.cn/http/77726476706e69737468656265737421eaff4b8b69336153301c9aa596522b20bc86e6e559a9b290/kc.kcKcb.do?m=showKcXx&p_kch=14700152&kcfldm=001) [Sixteen Lectures on World Cinema](https://webvpn.tsinghua.edu.cn/http/77726476706e69737468656265737421eaff4b8b69336153301c9aa596522b20bc86e6e559a9b290/kc.kcKcb.do?m=showKcXx&p_kch=14700152&kcfldm=001) | 2学分 2 credits |  |
| 10800163 | 艺术的启示\* Artistic Inspiration\* | 3学分 3 credits |  |
| 30806983 | 素描基础 Fundamentals of Sketching | 3学分 3 credits |  |
| 30806993 | 色彩基础 Fundamentals of Color | 3学分 3 credits |  |
| 00783232 | 舞蹈文化探究与作品创作 Exploration and Creation in Dance Culture | 2学分 2 credits |  |
| 14700372 | 作曲与绘画 Composition and Painting | 2学分 2 credits |  |
| 14700412 | 中西现代女作家经典作品研读 Study of Classic Works by Modern Chinese and Western Female Writers | 2学分 2 credits |  |
| 14700422 | 再造世界：从空间到空间的文学和影像 Reconstructing the World: Literature and Images from Space to Space | 2学分 2 credits |  |

注：标\*为清华大学通识荣誉课。

Note: Those marked with "\*" are general education honors courses at Tsinghua University.

**5. 可能与探索（必修≥4学分）**

**5. Possibility and Exploration (Compulsory, ≥ 4 Credits)**

（涉及社会、设计、工程、自然、宏观、具象、未来、科幻……等各个开放性领域）  
(Covering areas such as society, design, engineering, nature, macro, concrete, future, science fiction... and various other open fields)

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名** **Course Title** | **学分** **Credits** | **备注** **Notes** |
|  | 主题研讨小课1-4 Topic Seminar Sessions 1-4 | 1学分 1 credit |  |
| 14700163 | [美国的自由主义与保守主义](https://webvpn.tsinghua.edu.cn/http/77726476706e69737468656265737421eaff4b8b69336153301c9aa596522b20bc86e6e559a9b290/kc.kcKcb.do?m=showKcXx&p_kch=14700163&kcfldm=001) [American Liberalism and Conservatism](https://webvpn.tsinghua.edu.cn/http/77726476706e69737468656265737421eaff4b8b69336153301c9aa596522b20bc86e6e559a9b290/kc.kcKcb.do?m=showKcXx&p_kch=14700163&kcfldm=001) | 3学分 3 credits |  |
| 10660033 | 主权与人权\* Sovereignty and Human Rights\* | 3学分 3 credits |  |
| 34700063 | 政治哲学 Political Philosophy | 3学分 3 credits |  |
| 40590013 | 政治学基础 Fundamentals of Political Science | 3学分 3 credits |  |
| 44700033 | 政治学原理 Principles of Political Science | 3学分 3 credits |  |
| 34700023 | 比较政治 Comparative Politics | 3学分 3 credits |  |
| 44700103 | 经济史 History of Economics | 3学分 3 credits |  |
| 40700702 | 中国经济史 History of the Chinese Economy | 2学分 2 credits |  |
| 44700073 | 比较经济体制：新结构经济学分析 Comparative Economic Systems: An Analysis through New Structural Economics | 3学分 3 credits |  |
| 14700402 | 金融学基础 Fundamentals of Finance | 2学分 2 credits |  |
| 44700083 | 社会理论 Social Theory | 3学分 3 credits |  |
| 10700132 | 中国社会:结构与变迁 Chinese Society: Structure and Evolution | 2学分 2 credits |  |
| 30700283 | 社会学概论 Introduction to Sociology | 3学分 3 credits |  |
| 10700043 | 社会学的想象力：结构、权力与转型\* Sociological Imagination: Structure, Power, and Transformation\* | 3学分 3 credits |  |
| 44700363 | 理解发展 Understanding Development | 3学分 3 credits |  |
| 00691903 | 古典社会学思想 Classical Sociological Thought | 3学分 3 credits |  |
| 10660023 | 法律与文学 Law and Literature | 3学分 3 credits |  |
| 14700393 | 知识、观念与文学 Knowledge, Ideas, and Literature | 3学分 3 credits |  |
| 11510023 | 工业系统基础 Fundamentals of Industrial Systems | 3学分 3 credits |  |
| 01510162 | 制造工程体验 Experience in Manufacturing Engineering | 2学分 2 credits |  |
| 00920043 | 观测宇宙学：从太阳系走向宇宙深处 Observational Cosmology: From the Solar System to the Deep Universe | 3学分 3 credits |  |
| 10691203 | 科学革命\* Scientific Revolution\* | 3学分 3 credits |  |
| 10450012 | 现代生物学导论 Introduction to Modern Biology | 2学分 2 credits |  |
| 00450252 | 生命的进化与保护 Evolution and Protection of Life | 2学分 2 credits |  |
| 00642223 | 探索人类语言的奥秘# Exploring the Mysteries of Human Language# | 3学分 3 credits |  |
| 00691602 | 技术哲学导论# Introduction to the Philosophy of Technology# | 2学分 2 credits |  |
| 00240301 | 人工智能前沿探讨# Explorations in Artificial Intelligence Frontiers# | 1学分 1 credit |  |
| 11510042 | 人工智能思维# The Mind of Artificial Intelligence# | 2学分 2 credits |  |
| 04000151 | 脑科学与人工智能的对话：基础与前沿# Dialogues between Brain Science and Artificial Intelligence: Fundamentals and Frontiers# | 1学分 1 credit |  |
| 00130322 | 类脑计算和类脑计算系统技术# Brain-inspired Computing and Brain-inspired Computing System Technologies# | 2学分 2 credits |  |
| 10260062 | 从算盘到量子计算机\*# From Abacus to Quantum Computers\*# | 2学分 2 credits |  |
| 00240352 | 人文与社会科学计算导论# Introduction to Computing in Humanities and Social Sciences# | 2学分 2 credits |  |
| 00040022 | 地球与人类环境# Earth and Human Environment# | 2学分 2 credits |  |
| 11030023 | 教育社会学导论# Introduction to Sociology of Education# | 3学分 3 credits |  |
| 30700913 | 健康心理学# Health Psychology# | 3学分 3 credits |  |
| 00950012 | 大学生心理健康训练# Mental Health Training for College Students# | 2学分 2 credits |  |
| - | 全校**其他通识荣誉课程**（涉及全球性议题如气候变化、全球减贫、性别平权、国际关系等社会科学领域含，或者化学、生物学、天文学、地学、医学等科学， 或科幻等领域） **Other general education honors courses** (including global issues such as climate change, global poverty alleviation, gender equality, international relations, and other social science areas, or chemistry, biology, astronomy, earth sciences, medicine, and more, as well as science fiction and related domains) | 2学分 2 credits |  |

注：标\*为清华大学通识荣誉课。 #为选MBM专业推荐课程。  
Note: Those marked with "\*" are general education honors courses at Tsinghua University. Courses marked with "#" are recommended courses for MBM.

**（二）专业教育**

**(II) Specialized Education**

1. **专业课程**

**1. Specialized Courses**

见各专业方向培养方案的专业课程要求。

Refer to the specific curriculum requirements in the training program for each major.

1. **专业实践环节**

**2.** **Professional Practice**

专业实习和综合论文训练见各专业方向培养方案要求。

For professional internship and comprehensive thesis training, please see the respective requirements in each major's training program.

**（三）因材施教**

**(III) Tailored Education**

针对学生进行个性化因材施教，推行“一人一策”的培养方案，增加学生在通识教育和专业教育中的弹性和自由度。

Xinya College implements a personalized approach to education, tailoring individual development plans for each student under the "one person, one strategy" model. This initiative enhances the flexibility and freedom students have in both general education and specialized education.

**注：在本培养方案的执行过程中，课程设置还会有所调整以适应新的需求和发展。**  
**Note: The curriculum will be adjusted as needed to adapt to new demands and developments during this program's execution.**

**政治学、经济学与哲学（PPE）专业本科培养方案**  
**Undergraduate Training Program for Philosophy, Politics and Economics (PPE)**

**（指南版，以每学期课表为准）**  
**(Guide Version, Subject to the Class Schedule of Each Semester)**

1. **培养目标**

**I. Training Objectives**

培养具有中国主体意识和广阔国际视野、适应并引领现代化与全球化、具备高尚人格品质和领导力、严谨创新的思维方式、扎实的哲学、政治学和经济学以及其他人文社科领域的专业知识与素养，以及完备的工作实践技能的领袖精英人才。  
This program aims to cultivate elite leaders with a strong sense of Chinese identity and a broad international perspective. Graduates will be equipped to adapt to and lead in modernization and globalization efforts. They will possess high moral character, leadership skills, a rigorous and innovative mindset, and a solid foundation in philosophy, political science, economics, and other humanities and social sciences. Additionally, they will have comprehensive practical work skills.

1. **培养要求**

**II. Training Requirements**

本专业学生应具有追求真知和关注社会的精神，系统掌握中外哲学、政治学与经济学基础理论，掌握用人文社科思维方法分析政治、经济和社会复杂现象的能力，具备高强度阅读能力，批判性思考能力，以及出众的中英文语言表达能力，为进入国内外名校深造或进入公务员队伍做好价值、能力和知识方面的准备。

This program encourages students to embody a spirit of seeking true knowledge and engaging with society. Students are expected to systematically master foundational theories in both Chinese and Western philosophy, politics and economics. They should develop the ability to analyze complex political, economic, and social phenomena using methods rooted in humanities and social sciences, and exhibit strong reading, critical thinking, and exceptional bilingual communication skills, thereby preparing them in values, capabilities, and knowledge for advanced studies at prestigious universities domestically and internationally, or for careers in the civil service.

1. **学制与学位授予**

**III. Program Duration and Degree Conferment**

新雅书院学生在完成第一年新雅文理通识课程后，可申请进入本专业。  
Students at Xinya College are eligible to apply for this program upon completing their first-year general education courses in liberal arts and sciences.

本科学制四年，按照学分制管理，实行4-6年弹性学习年限。  
The undergraduate program spans four years and is governed by a credit system, offering a flexible range of study from 4 to 6 years.

授予学位：法学（广义）学士学位。

Degree conferred: Bachelor of Laws (General).

1. **基本学分、总投入时间**

**IV. Basic Credits and Total Time Commitment**

本科培养总学分为130学分，其中通识教育（校级和院级）62学分，专业相关课程54学分，专业实践环节14学分。

The total credits required for an undergraduate degree are 130, comprising 62 credits in general education (at both university and college levels), 54 credits in specialized courses, and 14 credits for professional practice.

1. **课程设置与学分、投入时间**

**V. Curriculum Structure, Credit Allocation, and Time Commitments**

1. **通识教育62学分**

**1. General Education (62 Credits)**

通识教育包括校级通识和新雅通识，参考新雅书院总体通识教育培养方案要求，其中“逻辑与理性”课组单独要求如下：

The general education curriculum includes both university-level and Xinya College's general education courses. According to the overall general education training program requirements of Xinya College, the "Logic and Rationality" course group has separate stipulations as follows:

**A．数学物理思维类 必修≥6学分**

**A. Mathematical and Physical Thinking (Compulsory, ≥ 6 Credits)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** | |
| 10421263 | 微积分C（1） Calculus C (1) | 3学分 3 credits | 组1 Group 1 | 必修 Compulsory  任选一组 Select any one group |
| 10421273 | 微积分C（2） Calculus C (2) | 3学分 3 credits |
| 10421263 | 微积分C（1） Calculus C (1) | 3学分 3 credits | 组2 Group 2 |  |
| 10421284 | 线性代数（社科类） Linear Algebra (Social Sciences) | 4学分 4 credits |
| 10420844 | 文科数学 Mathematics for Liberal Arts | 4学分 4 credits | 组3 Group 3 |
| 14700132 | 物理学（3） Physics (3) | 2学分 2 credits | 必修 Compulsory  二选一 Select one out of two | |
| 10431014 | 物理学概论 Introduction to Physics | 4学分 4 credits |

**2．专业教育68学分**

**2. Specialized Education (68 Credits)**

1. **专业主修课程≥35学分**

**(1) Core Courses (≥ 35 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| **（1）哲学课组** **(1) Philosophy Group** | | | |
| 44700013 | 中国哲学（1） Chinese Philosophy (1) | 3学分 3 credits |  |
| 44700063 | 中国哲学（2） Chinese Philosophy (2) | 3学分 3 credits |  |
| 44700043 | 西方哲学（1） Western Philosophy (1) | 3学分 3 credits |  |
| 34700033 | 西方哲学（2） Western Philosophy (2) | 3学分 3 credits |  |
| **（2）政治学课组** **(2) Political Science Group** | | | |
| 34700063 | 政治哲学 Political Philosophy | 3学分 3 credits |  |
| 44700033 | 政治学原理 Principles of Political Science | 3学分 3 credits |  |
| 34700023 | 比较政治 Comparative Politics | 3学分 3 credits |  |
| **（3）经济学课组** **(3) Economics Group** | | | |
| [30510743](http://zhjwxk.cic.tsinghua.edu.cn/kc.v_kc_all_bs.do?m=showKcXx&p_fajhh=163470111&p_kch=30510743&gbFlag=yes&pathContent=%E5%9F%B9%E5%85%BB%E6%96%B9%E6%A1%88%E8%AF%BE%E7%A8%8B%E4%BF%A1%E6%81%AF&moduleName=%E6%9C%AC%E7%A7%91%E7%94%9F%E5%9F%B9%E5%85%BB%E6%96%B9%E6%A1%88) | 中级微观经济学 Intermediate Microeconomics | 3学分 3 credits | 二选一 Select one out of two |
| [30510833](http://zhjwxk.cic.tsinghua.edu.cn/kc.v_kc_all_bs.do?m=showKcXx&p_fajhh=163470111&p_kch=30510743&gbFlag=yes&pathContent=%E5%9F%B9%E5%85%BB%E6%96%B9%E6%A1%88%E8%AF%BE%E7%A8%8B%E4%BF%A1%E6%81%AF&moduleName=%E6%9C%AC%E7%A7%91%E7%94%9F%E5%9F%B9%E5%85%BB%E6%96%B9%E6%A1%88) | 经济学原理（1） Principles of Economics (1) | 3学分 3 credits |
| 30510763 | 中级宏观经济学 Intermediate Macroeconomics | 3学分 3 credits | 二选一 Select one out of two |
| 30510803 | 经济学原理（2） Principles of Economics (2) | 3学分 3 credits |
| 44700103 | 经济史 History of Economics | 3学分 3 credits | 二选一 Select one out of two |
| 40700702 | 中国经济史 History of the Chinese Economy | 2学分 2 credits |
| **（4）交叉融合课组** **(4) Cross-disciplinary Integration Group** | | | |
| 44700213 | 政经哲研讨课（1） Political, Economic, and Philosophical Seminar (1) | 3学分 3 credits |  |
| 44700023 | 政经哲研讨课（2） Political, Economic, and Philosophical Seminar (2) | 3学分 3 credits |  |
| 44700053 | 政经哲研讨课（3） Political, Economic, and Philosophical Seminar (3) | 3学分 3 credits |  |
| 44700093 | 政经哲研讨课（4） Political, Economic, and Philosophical Seminar (4) | 3学分 3 credits |  |

1. 专业选修课程≥11学分

(2) Elective Courses (≥ 11 Credits)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** | |
| **（1）书院特色训练课程** **(1) College-oriented Training Courses** | | | | |
| 14700301 | 国际学术写作研讨课 International Academic Writing Seminar | 1学分 1 credit | 类1类2 Category 1 and Category 2 | 建议三类中至少选修二类 It is recommended to take at least two out of the three categories |
| 新课 New course | 新雅小课（1）-（4）【4个平行课】 Xinya Small Classes (1)-(4) [4 Parallel Sessions] | 1学分 1 credit |
| 44700142 | 学术论文训练 Academic Thesis Training | 2学分 2 credits | 类3 Category 3 |  |
| **（2）数量和计量方法课程** **(2) Courses on Quantitative and Measurement Methods** | | | | |
| 30700383 | 社会科学统计学入门 Introduction to Social Science Statistics | 3学分 3 credits | 必选五选一 Compulsory, select one out of five | |
| 40700133 | 社会统计学 Social Statistics | 3学分 3 credits |
| 30700922 | 计量经济学（1） Econometrics (1) | 2学分 2 credits |
| [30701043](https://learn.tsinghua.edu.cn/f/wlxt/index/course/teacher/course?wlkcid=2023-2024-1146572482) | 经济数学 Mathematics for Economics | 3学分 3 credits |
| 新开课 New course | 理解发展 Understanding Development | 3学分 3 credits |
| **（3）社会学课程** **(3) Sociology Courses** | | | | |
| 30700283 | 社会学概论 Introduction to Sociology | 3学分 3 credits | 必选三选一 Compulsory, select one out of three | |
| 10700043 | 社会学的想象力： 结构、权力与转型 Sociological Imagination: Structure, Power, and Transformation | 3学分 3 credits |
| 44700083 | 社会理论 Social Theory | 3学分 3 credits |
| **（4）政治学、经济学、哲学以及其他课程** **(4) Courses in PPE and Other Disciplines** | | | | |
| 10660033 | 主权与人权 Sovereignty and Human Rights | 3学分 3 credits |  | |
| 00701344 | 国际关系分析 International Relations Analysis | 4学分 4 credits |  | |
| 10700132 | 中国社会:结构与变迁 Chinese Society: Structure and Evolution | 2学分 2 credits |  | |
| 10700093 | 认识现代国家 Understanding Modern States | 3学分 3 credits |  | |
| 10700151 | 当代世界政治重大议题研讨 Seminar on Major Issues in Contemporary World Politics | 1学分 1 credit |  | |
| 30700883 | 当代中国政府与政治 Contemporary Chinese Government and Politics | 3学分 3 credits |  | |
| 44700073 | 比较经济体制：新结构经济学分析 Comparative Economic Systems: An Analysis through New Structural Economics | 3学分 3 credits |  | |
| 00701762 | 数字经济学 Digital Economics | 2学分 2 credits |  | |
| 00701562 | 美国创新史 History of Innovation in the United States | 2学分 2 credits |  | |
| 30700023 | 经济思想史 History of Economic Thought | 3学分 3 credits |  | |
| 40700683 | [中国经济专题](https://zhjw.cic.tsinghua.edu.cn/js.vjsKcbBs.do?m=showToXs&p_id=2013990142;40700683&kcfldm=001) [Topics in Chinese Economics](https://zhjw.cic.tsinghua.edu.cn/js.vjsKcbBs.do?m=showToXs&p_id=2013990142;40700683&kcfldm=001) | 3学分 3 credits |  | |
| 30690524 | 逻辑、语言与哲学 Logic, Language, and Philosophy | 4学分 4 credits |  | |
| 20690063 | 数理逻辑 Mathematical Logic | 3学分 3 credits |  | |
| 40691213 | 经学概论 Introduction to Confucianism | 3学分 3 credits |  | |
| 40691163 | 英语世界中的道家哲学 Taoist Philosophy in the English-Speaking World | 3学分 3 credits |  | |
| 00692293 | 古希腊哲学经典研读 Study of Ancient Greek Philosophical Classics | 3学分 3 credits |  | |
| 40691013 | 康德哲学与黑格尔哲学 Kantian Philosophy and Hegelian Philosophy | 3学分 3 credits |  | |
| 30690653 | 形而上学 Metaphysics | 3学分 3 credits |  | |
| 40690703 | 《圣经》与西方文化 The Bible and Western Culture | 3学分 3 credits |  | |
| 40690432 | 西方马克思主义 Western Marxism | 2学分 2 credits |  | |
| 40690943 | 伦理学导论 Introduction to Ethics | 3学分 3 credits |  | |
| 14700243 | 哲学的哲学 Philosophy of Philosophy | 3学分 3 credits |  | |
| 14700323 | 国际哲学前沿 International Philosophical Frontiers | 3学分 3 credits |  | |
| 14700393 | 知识、观念与文学 Knowledge, Ideas, and Literature | 3学分 3 credits |  | |
| 14700253 | 西方古典学基础(古希腊罗马文明) Fundamentals of Western Classics (Ancient Greek and Roman Civilization) | 3学分 3 credits |  | |
| 14700264 | 西方古典学基础(古希腊语) Fundamentals of Western Classics (Ancient Greek Language) | 4学分 4 credits |  | |

注:除了以上例举课程外， 学生还可以选择如下领域的课程：  
Note: In addition to the courses listed above, students also have the option to select courses from the following fields:

1. 社科学院、公管学院、至善书院等单位的“政治学与行政学”、“国际政治”、“行政管理”等专业的专业必修和专业选修课。

A. Compulsory and elective courses in majors such as "Political Science and Administration", "International Politics", and "Administrative Management" offered by the School of Social Sciences, the School of Public Policy & Management, Zhishan College, among others.

1. 社科学院、经管学院、五道口金融学院、至善书院的“经济学（学堂班）”、“经济与金融”、“金融学”等专业的专业必修课和选修课。

B. Compulsory and elective courses in majors like "Economics (Xuetang Class)", "Economics and Finance", and "Finance" offered by the School of Social Sciences, School of Economics and Management, PBC School of Finance, and Zhishan College.

1. 人文学院、日新书院、马克思主义学院的“哲学（学堂班）”、“马克思主义理论”等专业的必修课或选修课。

C. Compulsory or elective courses for majors such as "Philosophy (Xuetang Class)" and "Marxist Theory" provided by the School of Humanities, Rixin College, and the School of Marxism.

1. 人文与社会科学高等研究所开设的相关课程。

D. Courses offered by the Tsinghua Institute for Advanced Study in Humanities and Social Sciences related to the fields above.

课程认定由学生提出申请，同时提交相关专业培养方案经新雅书院教学办认定后可列入学生个人培养方案中。

Course recognition must be initiated by students through an application. Once the related major training program is submitted and endorsed by the Xinya College Teaching Affairs Office, it can be incorporated into the student's individual training plan.

1. **自主发展课程7学分**

**(3) Self-development Courses (7 Credits)**

参考学校开设的辅修专业课程目录自主选修。

Refer to the university's catalog of minor courses for autonomous elective choices.

注：若课程计入专业自主发展课程，则不能再用来申请辅修学位， 一课不能两用。  
Note: If the course counts as a major self-development course, it cannot double-count towards a minor degree. A single course cannot serve two purposes.

1. **专业实践环节14学分**

**(4) Professional Practice (14 Credits)**

1. **夏季学期实习实践训练4学分必修**

**A. Summer Semester Internship and Practical Training (Compulsory, 4 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 24700012 | 社会实践（PPE田野调查） Social Practice (PPE Field Study) | 2学分 2 credits |  |
| 24700022 | 国家机关、国际组织实习 Internships in Government Agencies and International Organizations | 2学分 2 credits |  |

1. **综合论文训练10学分必修**

**B. Comprehensive Thesis Training (Compulsory, 10 Credits)**

**智能工程与创意设计（CDIE）专业本科培养方案**  
**Undergraduate Training Program for Creative Design and Intelligent Engineering (CDIE)**

**（指南版，以每学期课表为准）**  
**(Guide Version, Subject to the Class Schedule of Each Semester)**

1. **培养目标**

**I. Training Objectives**

培养既有扎实的工程基础和设计功底、又有专业审美能力的复合型人才。本专业培养学生科技与艺术的融合能力、以智能工程为中心的创新设计能力、以及结合信息产业和社会需求设计与开发智能产品的创新能力的人才。

This program aims to cultivate well-rounded individuals with a solid foundation in engineering and design, complemented by a strong sense of aesthetic appreciation. This program is designed to cultivate students' ability to integrate technology and art, focusing on innovative design skills centered around intelligent engineering. It also aims to develop talent capable of designing and developing intelligent products that meet the needs of the information industry and society.

1. **培养要求**

**II. Training Requirements**

本专业侧重学生科学与艺术的综合素质发展，强调理论学习与动手实践相结合，注重培养学生科技与艺术的和能力、以智能工程为中心的创新设计能力，以及结合信息产业和社会需求设计与开发智能产品的创新能力，培养既有扎实的工程基础和设计功底、又有专业审美能力的复合型人才。

This program emphasizes the comprehensive development of students' qualities in science and art, integrating theoretical learning with practical application. It focuses on cultivating students' ability to merge technology and art, fostering innovative design skills centered around intelligent engineering, and developing the ability to design and create smart products aligned with information industry and societal needs. The program aims to nurture well-rounded talents with a solid engineering foundation, design prowess, and professional aesthetic judgment.

1. **学制与学位授予**

**III. Program Duration and Degree Conferment**

智能工程与创意设计专业本科学制四年，按照学分制管理，实行4-6年弹性学习年限。 授予工学学位。

The undergraduate program in CDIE spans four years and is governed by a credit system, providing a flexible study duration ranging from 4 to 6 years. A Bachelor of Engineering degree is conferred.

1. **基本学分要求**

**IV. Core Credit Requirements**

本科培养总学分为160学分，其中通识教育（含校级通识和院级通识）77学分，专业相关课程67学分，专业实践环节16学分。

The undergraduate curriculum consists of 160 total credits, comprised of 77 credits for general education (including both university-level and college-level courses), 67 credits for courses specific to the major, and 16 credits dedicated to professional practice.

1. **课程设置与学分分布**

**V. Curriculum Design and Credit Allocation**

1. **通识教育77学分**

**1. General Education (77 Credits)**

通识教育课程包括校级通识课程和新雅通识课程，参考新雅书院总体通识教育培养方案要求，其中单独的要求见如下：

The general education courses involve both university-level courses and Xinya College's courses. For details, refer to the requirements in Xinya College's overall general education training program. Specific requirements include the following:

1. **逻辑与理性**

**(1) Logic and Rationality**

1. **数学物理思维类≥23学分**

**A. Mathematical and Physical Thinking (≥ 23 Credits)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** | |
| 10421055 | 微积分A（1） Calculus A (1) | 5学分 5 credits | 组一 Group 1 | 必修二选一 Compulsory, select one out of two |
| 10421065 | 微积分A（2） Calculus A (2) | 5学分 5 credits |
| 10421075 | 微积分B（1） Calculus B (1) | 5学分 5 credits | 组二 Group 2 |
| 10421084 | 微积分B（2） Calculus B (2) | 4学分 4 credits |
| 10421324 | 线性代数 Linear Algebra | 4学分 4 credits | 必修 Compulsory | |
| 10431074 | 物理学（1） Physics (1) | 4学分 4 credits | 必修 Compulsory | |
| 10431084 | 物理学（2） Physics (2) | 4学分 4 credits | 必修 Compulsory | |
| 14700132/10431242 | 物理学（3） Physics (3) | 2学分 2 credits | 必修 Compulsory | |

1. **计算思维类完成专业教育中的相关课程即满足要求，无需单独修课。**  
   **B. For the computational thinking category, completing the relevant courses in specialized education fulfills the requirement. No need for separate courses.**
2. **文艺与审美必修≥8学分**

**(2) Literature and Aesthetics (Compulsory, ≥ 8 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 14700212 | 西方现代设计史 History of Western Modern Design | 2学分 2 credits |  |
| 30806983 | 素描基础 Fundamentals of Sketching | 3学分 3 credits |  |
| 30806993 | 色彩基础 Fundamentals of Color | 3学分 3 credits |  |

1. **可能与探索必修≥2学分**

**(3) Possibility and Exploration (Compulsory, ≥ 2 Credits)**

1. **专业教育67学分**

**2. Specialized Education (67 Credits)**

1. **基础课程5学分**

**(1) Basic Courses (5 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 10421373 | 概率论与随机过程 Probability Theory and Random Processes | 3学分 3 credits |  |
| 10420252 | 复变函数引论 Introduction to Complex Functions | 2学分 2 credits |  |

（2）专业主修课程62学分

(2) Core Courses (62 Credits)

|  |  |  |  |
| --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| **(1)工程类课程** **(1) Engineering Courses** | | | |
| 30250023 | 计算机语言及程序设计 Computer Languages and Programming | 3学分 3 credits |  |
| 20220483 | 电路原理C（含实验） Principles of Circuits C (Including Experiments) | 3学分 3 credits |  |
| 20250173 | 数字电子技术基础 Fundamentals of Digital Electronic Technology | 3学分 3 credits |  |
| 20250141 | 电子技术课程设计 Electronic Technology Course Design | 1学分 1 credit |  |
| 30250203 | 数据结构 Data Structures | 3学分 3 credits |  |
| 40250144 | 信号与系统分析 Signal and Systems Analysis | 4学分 4 credits |  |
| 20250193 | 运筹学 Operations Research | 3学分 3 credits |  |
| 20250242 | 人工智能原理 Principles of Artificial Intelligence | 2学分 2 credits |  |
| 20250064 | 模拟电子技术基础（含实验） Fundamentals of Analog Electronic Technology (Including Experiments) | 4学分 4 credits |  |
| 20120143 | 工程制图基础 Fundamentals of Engineering Drawing | 3学分 3 credits |  |
| 20310314 | 工程力学A（含实验） Engineering Mechanics A (Including Experiments) | 4学分 4 credits |  |
| 34700073 | 机械设计基础(含实验） Fundamentals of Mechanical Design (Including Experiments) | 3学分 3 credits |  |
| 44700313 | 机械制造基础（含实验） Fundamentals of Mechanical Manufacturing (Including Experiments) | 3学分 3 credits |  |
| **（2）设计类课程** **(2) Design Courses** | | | |
| 40120583 | 现代设计技术 Modern Design Technology | 3学分 3 credits |  |
| 44700243 | 造型基础 Fundamentals of Modeling | 3学分 3 credits |  |
| 44700262 | 设计思维 Design Thinking | 2学分 2 credits |  |
| 44700251 | 工业设计概论 Introduction to Industrial Design | 1学分 1 credit |  |
| 44700304 | 交互设计 Interaction Design | 4学分 4 credits |  |
| 44700152 | 用户体验设计基础 Fundamentals of User Experience Design | 2学分 2 credits |  |
| **（3）交叉融合类课程** **(3) Cross-disciplinary Integration Courses** | | | |
| 44700284 | 创新设计与实践-基础 Fundamentals of Innovative Design and Practice | 4学分 4 credits |  |
| 44700334 | 创新设计与实践-高级 Advanced Innovative Design and Practice | 4学分 4 credits |  |

**3．专业实践环节16学分**

**3. Professional Practice (16 Credits)**

1. **夏季学期实习实践训练7学分**

**(1) Summer Semester Internship and Practical Training (7 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 21510123 | 金工实习B Metalworking Internship B | 3学分 3 credits |  |
| 44700344 | 专业实践 Professional Practice | 4学分 4 credits |  |

**（2）综合论文训练9学分**

**(2) Comprehensive Thesis Training (9 Credits)**

**心理、脑与认知科学（MBM）专业本科培养方案**  
**Undergraduate Training Program for Mind, Brain & Machine (MBM)**

**（指南版，以每学期课表为准）**  
**(Guide Version, Subject to the Class Schedule of Each Semester)**

1. **培养目标**

**I. Training Objectives**

心理、脑与认知科学（Mind, Brain & Machine，简称MBM），以心理学、脑科学和人工智能为基础的新兴交叉专业，培养横跨文科、理科和工科三大领域的文理交融、科工结合的颠覆性创新人才，探索心理现象背后的认知神经机制，研发类生智能。  
The MBM program is an emerging interdisciplinary field that integrates psychology, brain science, and artificial intelligence. It aims to cultivate disruptive and innovative talents who are proficient across the arts, sciences, and engineering. These individuals are skilled in blending arts and sciences, as well as science and engineering. The program focuses on exploring the cognitive neural mechanisms underlying psychological phenomena and developing human-like intelligence.

1. **培养要求**

**II. Training Requirements**

本专业文理交融、科工结合，强调理论学习与动手实践相结合，注重培养学生：  
This program integrates arts and sciences, combines scientific and engineering disciplines, and emphasizes the blend of theoretical knowledge with practical application. It is focused on cultivating students who possess:

（1）坚实的专业基础：掌握心理学、脑科学与人工智能的基本理论知识以及专业研究和实践能力，具备发现问题、解决问题、追求真知、批判性思考能力；  
(1) Solid professional foundation: Master the fundamental theoretical knowledge of psychology, brain science, and artificial intelligence along with skills in specialized research and practical application, equipped with the abilities to identify and solve problems, pursue true knowledge, and engage in critical thinking;

（2）优秀的人文素养：具有家国情怀、人文底蕴、健康心理、审美雅趣；  
(2) Exceptional humanistic qualities: Possess a sense of patriotism, cultural depth, psychological well-being, and an aesthetic sense;

（3）卓越的领导力：勇于突破、敢于创新、善于合作、有国际视野，为领航心理、脑与认知科学领域的国际前沿研究和实践应用奠定基础。  
(3) Outstanding leadership: Dare to break new ground, innovate courageously, excel in collaboration, and maintain an international perspective, establishing a foundation for leading international cutting-edge research and practical applications in psychology, brain science, and cognitive science fields.

**三、学制与学位授予**

**III. Program Duration and Degree Conferment**

新雅书院学生在完成第一年新雅文理通识课程后，可申请进入本专业。按本科四年学制进行课程设置及学分分配。本科最长学习年限为六年。授予学位：理学学士学位。  
Students at Xinya College are eligible to apply for this program upon completing their first-year general education courses in liberal arts and sciences. The curriculum and credit allocation follow a four-year undergraduate framework. The maximum time allowed for undergraduate studies is six years. Degree conferred: Bachelor of Science.

1. **基本学分要求**

**IV. Core Credit Requirements**

本科培养总学分为141学分，其中通识教育（校级和院级）80学分，专业相关课程46学分，专业实践环节15学分。

The total credits for undergraduate training amount to 141, comprising 80 credits for general education (at both university and college levels), 46 credits for major-related courses, and 15 credits for professional practice components.

1. **课程设置与学分分布**

**V. Curriculum Design and Credit Allocation**

1. **通识教育80学分**

**(I) General Education (80 Credits)**

通识教育包括校级通识和新雅通识，参考新雅书院总体通识教育培养方案要求，其中“逻辑与理性”课组、“自由与探索”课组单独要求。  
General education includes university-level general education and Xinya College's general education, in accordance with the overall general education training program requirements of Xinya College. Within this, the "Logic and Rationality" course group and the "Freedom and Exploration" course group have specific requirements.

1. **逻辑与理性（必修≥32学分）**

**(I) Logic and Rationality (Compulsory, ≥ 32 Credits)**

1. **数学和物理思维类必修≥26学分**

**(1) Mathematical and Physical Thinking (Compulsory, ≥ 26 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 10421075 | 微积分B（1） Calculus B (1) | 5学分 5 credits |  |
| 10421084 | 微积分B（2） Calculus B (2) | 4学分 4 credits |  |
| 10421194 | 线性代数 Linear Algebra | 4学分 4 credits |  |
| 10420803 | 概率论与数理统计 Probability Theory and Mathematical Statistics | 3学分 3 credits |  |
| 10431074 | 物理学（1） Physics (1) | 4学分 4 credits |  |
| 14031084 | 物理学（2） Physics (2) | 4学分 4 credits |  |
| 14700132/10431242 | 物理学（3） Physics (3) | 2学分 2 credits |  |

**(2)计算思维类必修≥3学分**

**(2) Computational Thinking (Compulsory, ≥ 3 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 20740073 | 计算机程序设计基础 Fundamentals of Computer Programming | 3学分 3 credits |  |

注：可用高难度课程替代低难度课程。

Note: Courses deemed higher in difficulty may replace those of lower difficulty.

1. **逻辑思维类必修≥3学分**

**(3) Logical Thinking (Compulsory, ≥ 3 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| 10700183 | 心智探秘 Mental Exploration | 3学分 3 credits | MBM专业必修 Compulsory for MBM |

注：标\*为清华大学通识荣誉课。

Note: Those marked with "\*" are general education honors courses at Tsinghua University.

**可能与探索（必修≥4学分）**

**Possibility and Exploration (Compulsory, ≥ 4 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程号** **Course No.** | **课程名** **Course Title** | **学分** **Credits** | **备注** **Notes** |
|  | 新雅通识教育中“可能与探索”课组的所有课程（见新雅书院总培养方案） All courses within the "Possibility and Exploration" course group of Xinya College's general education (refer to Xinya College's overall training program) |  |  |
| 00642223 | 探索人类语言的奥秘# Exploring the Mysteries of Human Language# | 3学分 3 credits | 语言学 Linguistics |
| 00691602 | 技术哲学导论# Introduction to the Philosophy of Technology# | 2学分 2 credits | 哲学 Philosophy |
| 00240301 | 人工智能前沿探讨# Explorations in Artificial Intelligence Frontiers# | 1学分 1 credit | 人工智能类 Artificial Intelligence |
| 11510042 | 人工智能思维# The Mind of Artificial Intelligence# | 2学分 2 credits | 人工智能类 Artificial Intelligence |
| 04000151 | 脑科学与人工智能的对话：基础与前沿# Dialogues between Brain Science and Artificial Intelligence: Fundamentals and Frontiers# | 1学分 1 credit | 脑科学 Brain Science |
| 00130322 | 类脑计算和类脑计算系统技术# Brain-inspired Computing and Brain-inspired Computing System Technologies# | 2学分 2 credits | 脑科学 Brain Science |
| 00240352 | 人文与社会科学计算导论# Introduction to Computing in Humanities and Social Sciences# | 2学分 2 credits | 计算科学 Computational Science |

注：可选择新雅通识教育中“可能与探索”课组的所有课程，而此处只列出带#课程（此为MBM推荐课程）。

Note: While all courses in the "Possibility and Exploration" course group in Xinya College's general education are open for selection, only those courses marked with "#" are highlighted here as recommended for MBM.

1. **专业教育>=61学分**

**(II) Specialized Education (≥ 61 Credits)**

1. **专业必修课程>=40学分**

**1. Compulsory Courses (≥ 40 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| **课程编号** **Course No.** | **课程名称** **Course Title** | **学分** **Credits** | **备注** **Notes** |
| **（1）核心基础课（4学分）** **(1) Core Foundational Course (4 Credits)** | | | |
| 30950024 | 心理、脑与认知研究方法 Methods in Psychological, Brain, and Cognitive Research | 4学分 4 credits |  |
| **（2）心智课组（11学分）** **(2) Mental Studies Group (11 Credits)** | | | |
| 新课 New course | 心智的演化与发展 Evolution and Development of the Mind | 4学分 4 credits |  |
| 30950014 | 心智与社会 Mind and Society | 4学分 4 credits |  |
| 新课 New course | 心智进阶 Advanced Mental Studies | 3学分 3 credits |  |
| **（3）脑科学课组（10学分）** **(3) Brain Science Group (10 Credits)** | | | |
| 新课 New course | 神经元与神经环路 Neurons and Neural Circuits | 4学分 4 credits |  |
| 新课 New course | 中枢神经系统与解剖 Central Nervous System and Anatomy | 3学分 3 credits |  |
| 新课 New course | 脑科学进阶 Advanced Brain Science | 3学分 3 credits |  |
| **（4）计算智能课组（7学分）** **(4) Computational Intelligence Group (7 Credits)** | | | |
| 20250242 | 人工智能原理 Principles of Artificial Intelligence | 2学分 2 credits |  |
| 34100402 | 机器学习基础 Fundamentals of Machine Learning | 2学分 2 credits | 三选一 Select one out of three |
| 44100552 | 机器学习 Machine Learning | 2学分 2 credits |
| 30250392 | 模式识别与机器学习 Pattern Recognition and Machine Learning | 2学分 2 credits |
| 新课 New course | 计算智能进阶 Advanced Computational Intelligence | 3学分 3 credits |  |
| **（5）交叉融合课组（8学分）** **(5) Cross-disciplinary Integration Group (8 Credits)** | | | |
| 新课 New course | 脑的认知机制与行为 Cognitive Mechanisms and Behavioral Processes of the Brain | 4学分 4 credits |  |
| 新课 New course | 脑启发的人工智能 Brain-inspired Artificial Intelligence | 4学分 4 credits |  |

1. **专业选修课≥6学分**

**2. Elective Courses (≥ 6 Credits)**

|  |  |  |  |
| --- | --- | --- | --- |
| 课程编号 Course No. | 课程名称 Course Title | 学分 Credits | 备注 Notes |
| **（1）心智课组** **(1) Mental Studies Group** | | | |
| 70612883 | 咨询心理学专题 Topics in Counseling Psychology | 3学分 3 credits | 本研贯通课 Undergraduate-postgraduate integration course |
| 70700302 | 发展心理学专题 Topics in Developmental Psychology | 2学分 2 credits | 本研贯通课 Undergraduate-postgraduate integration course |
| 80700752 | 应用社会心理学专题 Topics in Applied Social Psychology | 2学分 2 credits | 本研贯通课 Undergraduate-postgraduate integration course |
| **（2）脑科学课组** **(2) Brain Science Group** | | | |
| 44030263 | 系统与计算神经科学# Systems and Computational Neuroscience# | 3学分 3 credits |  |
| 40450353 | 认知的神经生物学基础# Neurobiological Fundamentals of Cognition# | 3学分 3 credits |  |
| 34000353 | 神经科学及神经工程基础 # Fundamentals of Neuroscience and Neuroengineering# | 3学分 3 credits |  |
| 24000024 | 生物医学信号与系统 Biomedical Signals and Systems | 4学分 4 credits |  |
| **（3）计算智能课组** **(3) Computational Intelligence Group** | | | |
| 20250064/30250274 | 模拟电子技术基础 Fundamentals of Analog Electronic Technology | 4学分 4 credits |  |
| 00240074 | 数据结构 Data Structures | 4学分 4 credits |  |
| 00250194 | 智能机器人 Intelligent Robotics | 4学分 4 credits |  |
| 30250093 | 计算机网络及应用 Computer Networks and Applications | 3学分 3 credits |  |
| 40250562 | 智能优化算法及其应用 Intelligent Optimization Algorithms and Applications | 2学分 2 credits |  |
| 40470353 | 计算机视觉 Computer Vision | 3学分 3 credits |  |
| **（4）交叉融合课组** **(4) Cross-disciplinary Integration Group** | | | |
| 80251072 | 情感计算# Affective Computing# | 2学分 2 credits | 本研贯通课 Undergraduate-postgraduate integration course |
| 80701622 | 人工智能与心理学 Artificial Intelligence and Psychology | 2学分 2 credits | 本研贯通课 Undergraduate-postgraduate integration course |
| 80701413 | 认知与智能 Cognition and Intelligence | 3学分 3 credits | 本研贯通课 Undergraduate-postgraduate integration course |
| 80700252 | 认知神经科学前沿 Frontiers in Cognitive Neuroscience | 2学分 2 credits | 本研贯通课 Undergraduate-postgraduate integration course |

注：标#为推荐课程。

Note: Courses marked with "#" are recommended.

1. **专业实践≥15学分**

**3. Professional Practice (≥ 15 Credits)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 课程编号 Course No. | 课程名称 Course Title | 学分 Credits | 备注 Notes |  |
| 新课 New course | 科研生涯管理 Research Career Management | 1学分 1 credit | 8学时讲授（科研伦理、实验室安全、学术规范）+8学时实践（实验室参观和见习，参加学术会议和研讨，写学习心得体会） 8 hours of lectures (covering topics like scientific ethics, lab safety, and academic standards) + 8 hours of practical work (including lab tours and internships, attending conferences and seminars, writing reflections) | 必修 Compulsory |
| 新课 New course | 学术写作与演讲 Academic Writing and Presentation | 2学分 2 credits | 暑期学术写作与演讲工作坊 Summer Workshop on Academic Writing and Presentation | 必修 Compulsory |
| 新课 New course | 专业实习 Professional Internship | 2学分 2 credits | 暑期专业训练 Summer Professional Training | 选修 Elective  ≥2学分 ≥2 credits |
|  | 研究训练（SRT、大学生创新创业训练、海外社会实践等） Research Training (including SRT, College Student Innovation and Entrepreneurship Training, Overseas Social Practice, etc.) | 2学分 2 credits |  |
| 40950013 | 前沿开放创新研究：认知与智能（1） Frontier Open Innovation Research: Cognition and Intelligence (1) | 3学分 3 credits | 分春秋季学期；每周不少于10小时的科研训练； 提交科研报告 This is offered during the spring and autumn semesters; it requires at least 10 hours of research training per week and the submission of research reports. | 选修 Elective  ≥6学分 ≥ 6 credits |
| 新课 New course | 前沿开放创新研究：认知与智能（2） Frontier Open Innovation Research: Cognition and Intelligence (2) | 3学分 3 credits |
| 40950023 | 前沿开放创新研究：社会与健康（1） Frontier Open Innovation Research: Society and Health (1) | 3学分 3 credits |
| 新课 New course | 前沿开放创新研究：社会与健康（2） Frontier Open Innovation Research: Society and Health (2) | 3学分 3 credits |
| 新课 New course | 综合论文训练 Comprehensive Thesis Training | 4学分 4 credits | 一学年 One academic year | 必修 Compulsory |

**（三）因材施教**

**(III) Tailored Education**

针对学生进行个性化因材施教，推行“一人一策”的培养方案，增加学生在通识教育和专业教育中的弹性和自由度。涉及一人一策的课程替代、减免、认定等方面，由学生本人提出申请，由MBM教学委员会委托专家组进行审核，教学委员会同意后报学校教务处审批。  
Xinya College implements a personalized approach to education, tailoring individual development plans for each student under the "one person, one strategy" model. This initiative enhances the flexibility and freedom students have in both general education and specialized education. For matters involving personalized course substitutions, exemptions, and recognitions, students must submit an application. The MBM Teaching Committee will delegate an expert panel to review the application. If the Teaching Committee approves, it will be forwarded to the university's Undergraduate Academic Affairs Office for final approval.

注：在本培养方案的执行过程中，课程设置还会有所调整以适应新的需求和发展。  
Note: The curriculum will be adjusted as needed to adapt to new demands and developments during this program's execution.