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Budgetary institution of higher education
 of the Khanty-Mansiysk Autonomous Okrug-Yugra
 "Surgut State University"

APPROVED
 Vice-Rector for Educational and
 Methodological Work
 _____ E.V. Konovalova

June 11th 2026, protocol № 5 of the EMC

EDUCATIONAL PRACTICE

Educational practice, research work work program (WP) of the discipline (module)

Assigned to the department **Pathophysiology and general pathology**

Syllabus (Sb) s31050-ЛечДелоИн-25-1.plx

Specialization: 31.05.01 General Medicine
 General Medicine
 Qualification **General Practitioner**

Form of education **full -time**

Total labor intensity **2 credit units (CU)**

Hours according to the syllabus 72
 including:
 classroom sessions (CS) 32
 independent work 40

Types of assessments – in semesters:
 credits 10

Distribution of the discipline hours by semesters

Semester	10 (5.2)		Total	
	17 2/6			
Weeks	curriculum	work program	curriculum	work program
Type of classes	32	32	32	32
Practical	32	32	32	32
Total aud.	32	32	32	32
Contact work	40	40	40	40
Self. work	72	72	72	72

The program was compiled by:
MD Professor L.A. Naumova

Work program of the discipline

Educational practice, research work

developed in accordance with the Federal State

Educational Standard:

Federal State Educational Standard of Higher Education - Specialist in specialty 31.05.01 General Medicine (Order of the Ministry of Education and Science of Russia dated 12.08.2020 No. 988)

compiled on the basis of the syllabus:

31.05.01 General medicine Specialization: General medicine approved by the educational and methodological council of the university on 11.06.2026, protocol No. 5.

The work program was approved at the

Department of Pathophysiology and General Pathology meeting

Head of the Department, Doctor of Medical Sciences Professor L.V. Kovalenko

1. THE AIM AND OBJECTIVES OF MASTERING THE DISCIPLINE

1.1	Obtaining primary knowledge, skills and abilities in conducting research work - skills in independent planning, development and implementation of research work, development of analytical thinking for collecting, analyzing and systematizing scientific information and its evaluation, as well as the ability to present the results obtained, their practical application and readiness for their implementation in the professional field.
1.2	Objectives of educational practice, research work: 1. To develop basic skills and abilities of research work: determining the relevance of the research topic, formulating the goal and objectives of the research, determining the sample size, determining the type of research, methods for solving the tasks, designing the research; 2. To develop basic skills and abilities in the field of medical and biological statistics using computer technologies; 3. To develop basic skills and abilities in systematization, description of the results obtained, formulation of conclusions;

4. To develop basic skills and abilities in visual presentation of the results obtained in the form of a report and

2. PLACE OF THE DISCIPLINE IN THE STRUCTURE OF THE GENERAL EDUCATION PROGRAM (GEP)

GEP cycle (section):	Б2.О.01
2.1	Requirements for preliminary training of the student:
2.1.1	Obstetrics
2.1.2	Gynecology
2.1.3	Hospital therapy
2.1.4	Hospital surgery, pediatric surgery
2.1.5	Dermatovenereology
2.1.6	Pediatric gynecology
2.1.7	Public health and healthcare. Health care economics
2.1.8	Oncogynecology
2.1.9	Perinatology
2.1.10	Outpatient therapy
2.1.11	Industrial practice, obstetric-gynecological practice
2.1.12	Industrial practice, general medical practice
2.1.13	Psychiatry, medical psychology
2.1.14	Phthisiology
2.1.15	Infectious diseases
2.1.16	Ophthalmology
2.1.17	Occupational diseases
2.1.18	Urology
2.1.19	Endocrinology
2.1.20	Immunology and allergology
2.1.21	Foreign language in the professional sphere
2.1.22	Neurology, medical genetics, neurosurgery
2.1.23	Pediatrics
2.1.24	Industrial practice, diagnostic practice
2.1.25	Industrial practice, therapeutic practice
2.1.26	Industrial practice, surgical practice
2.1.27	Dentistry
2.1.28	Faculty therapy
2.1.29	Faculty surgery
2.1.30	Clinical pathological physiology
2.1.31	Pathological syndromes in clinical medicine
2.1.32	Topographic anatomy, operative surgery
2.1.33	Radiation diagnostics
2.1.34	General surgery
2.1.35	Pathological anatomy
2.1.36	Pathophysiology

2.1.37	Industrial practice, practice for obtaining professional skills and experience of professional activity in the positions of midlevel medical personnel
2.1.38	Propaedeutics of internal diseases
2.1.39	Pharmacology
2.1.40	Hygiene
2.1.41	Microbiology, virology
2.1.42	Adaptive and age-related physiology
2.1.43	Biochemistry Foreign language
2.1.44	Normal physiology
2.1.45	Jurisprudence
2.1.46	Industrial practice, practice for obtaining professional skills and experience of professional activity in the positions of assistant to mid-level medical personnel
2.1.47	Educational practice, research work (obtaining primary skills of research work)
2.1.48	Human anatomy
2.1.49	Histology, embryology, cytology
2.1.50	Teamwork
2.1.51	Physiological foundations of human adaptation in the North
2.1.52	Philosophy
2.1.53	Life safety
2.1.54	Biology
2.1.55	Human genetics
2.1.56	History of medicine
2.1.57	Latin language
2.1.58	Medical informatics
2.1.59	Educational practice, introductory practice in caring for patients of therapeutic and surgical profile
2.1.60	Introduction to professional activity. Ethics and deontology (bioethics)
2.1.61	Russian language and culture of speech
2.1.62	Theoretical foundations of studying patient care
2.1.63	Digital literacy
2.2	Disciplines and practices for which mastering this discipline (module) is necessary as a prerequisite:
2.2.1	Obstetrics
2.2.2	Gynecology
2.2.3	Hospital therapy
2.2.4	Hospital surgery, pediatric surgery
2.2.5	Dermatovenereology
2.2.6	Children's gynecology
2.2.7	Public health and healthcare. Health care economics
2.2.8	Oncogynecology
2.2.9	Perinatology
2.2.10	Industrial practice, obstetric-gynecological practice
2.2.11	Psychiatry, medical psychology
2.2.12	Anesthesiology, resuscitation, intensive care
2.2.13	Clinical pathological anatomy
2.2.14	Disaster medicine
2.2.15	Medical rehabilitation
2.2.16	Traumatology and orthopedics
2.2.17	Clinical pharmacology
2.2.18	Oncology, radiation therapy
2.2.19	Preparation for and passing the state exam
2.2.20	Cardiovascular surgery and functional diagnostics
2.2.21	Forensic medicine
2.2.22	Epidemiology

3. STUDENT GENERAL PROFESSIONAL COMPETENCES (GPC) DEVELOPED AS A RESULT OF MASTERING A DISCIPLINE (MODULE)

UC-1.1: Analyzes the task, identifying its basic components

UC-1.2: Identifies and ranks the information required to solve the problem

UC -1.3: Searches for information to solve the assigned task using various types of requests

UC-4.2: Presents the results of academic activities in oral and written forms during business communication in the state language of the Russian Federation and a foreign language

UC-6.1: Defines the tasks of self-development and professional growth, distributes them into long-, medium- and short-term ones with a justification of their relevance and determination of the necessary resources for their implementation

GPC-10.1: Demonstrates knowledge of the mathematical foundations of medical statistics to solve their professional problems

GPC--10.2: Assesses the quality of medical information obtained from open sources (portals and orders of the Ministry of Health of the Russian Federation; orders of regional health authorities; information, bibliographic resources, medical and biological information and communication database) taking into account the evidence and information security

GPC--11.1: Analyzes the information received, prepares and applies scientific, production, design, organizational, requirements, managerial and regulatory documentation in the healthcare system

GPC--11.2: Participates in scientific research and is ready to participate in the implementation of new methods and techniques aimed at protecting the health of citizens

GPC--11.3: Demonstrates readiness to analyze and publicly present medical information based on evidence -based medicine

PC-9.2: Presents medical information based on evidence -based medicine

PC-10.1: Participates in the implementation of new methods and techniques aimed at protecting the health of citizens

As a result of mastering the discipline, the student must

3.1 Know:

3.1.1 the main stages of scientific research activity;

3.1.2 the principles of analytical work with a scientific topic using the example of preparing a literature review, statistical analysis of a fragment of scientific data, i.e. how to formulate the goal of the work; the tasks that need to be solved to achieve this goal; how to design a study;

3.1.3 the mathematical foundations of medical statistics for solving your professional problems;

3.1.4 how to analyze the information received, prepare project, organizational, managerial and regulatory documentation

3.1.5 how to carry out this research, obtain results, analyze data, draw conclusions;

3.1.6 how to present the obtained data in the form of a descriptive work (literature review, scientific report) and a presentation (for public defense and discussion).

3.2 Be able to:

3.2.1 main stages of scientific research activity;

3.2.2 principles of analytical work with a scientific topic using the example of preparing a literature review, statistical analysis of a fragment of scientific data, i.e. how to formulate the goal of the work; tasks that need to be solved to achieve this goal; how to design a study;

3.2.3 conduct a search for information to solve the assigned task for various types of requests;

3.2.4 assess the quality of medical information obtained from open sources (portals and orders of the Ministry of Health of the Russian Federation; orders of regional health authorities; information, bibliographic resources, medical and biological information and communication database) taking into account the evidence and information security requirements;

3.2.5 select statistical analysis methods, present medical information based on evidence-based medicine;

3.2.6 analyze (interpret) the results obtained, draw conclusions and present research results (report, presentation) in oral and written forms during business communication in Russian and foreign languages;

3.2.7 draw conclusions and present research results (report, presentation) in oral and written forms during business communication in Russian and foreign languages;

3.2.8 determine tasks of self-development and professional growth, distributes them into long-, medium- and short-term ones with justification of relevance and determination of the necessary resources for their implementation.

4. STRUCTURE AND CONTENT OF THE DISCIPLINE (MODULE)

Code of the class	Name of sections and topics /type of class	Semester / Year	Hours	Competences	Literature	Note
	Section 1.					

1.1	Introductory briefing by the internship supervisor. Drafting a letter to the head physician of the institution regarding the admission of students to work with medical documentation at the medical institution. Familiarization with the documents on the internship. What is science, scientific	10	2	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC-10.2 GPC-11.1 GPC-11.2 GPC-11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	Entry in the briefing log
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	research. Types of scientific research (tasks): short-term, medium-term, prolonged (longterm, or continuing for years, forming entire schools). Purpose, tasks and methods of their implementation (achievement). Work plan, or design of scientific research. /Pr/					
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1.2	What is science, scientific research. Types of scientific research (tasks): short-term, medium-term, prolonged (longterm, or continuing for years, forming entire schools). Purpose, tasks and methods of their implementation (achievement). Work plan, or design of scientific research. Introductory briefing of the head of practice. /IW/	10	6	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC-10.2 GPC-11.1 GPC-11.2 GPC-11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	
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1.3	Selection of the research topic. Formulation, goals, objectives, selection of methods for their solution, preparation of the design of the work. Direct implementation of R&D. /Pr/	10	6	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC-10.2 GPC-11.1 GPC-11.2 GPC-11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	Interview and consultation
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1.4	Selection of the research topic. Formulation, goals, objectives, selection of methods for their solution, preparation of the design of the work. Direct implementation of R&D. /IW/	10	6	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC-10.2 GPC-11.1 GPC-11.2 GPC-11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	
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1.5	Carrying out research work. /Pr/	10	6	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC-10.2 GPC-11.1 GPC-11.2 GPC-11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	Interview and consultation
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1.6	Carrying out research work. /IW/	10	6	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC-10.2 GPC-11.1 GPC-11.2 GPC-11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	
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1.7	Carrying out research work. /Pr/	10	6	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC- 10.2 GPC-11.1 GPC-11.2 GPC- 11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	Interview and consultation
1.8	Carrying out research work. /IW/	10	6	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC- 10.2 GPC-11.1 GPC-11.2 GPC- 11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	
1.9	Carrying out research work, analysis of the obtained data and presentation of the research results. /Pr/	10	6	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC- 10.2 GPC-11.1 GPC-11.2 GPC- 11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	Interview and consultation
1.10	Carrying out research work, analysis of the obtained data and presentation of the research results. /IW/	10	8	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC- 10.2 GPC-11.1 GPC-11.2 GPC- 11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	
1.11	Public presentation of a research report. /Pr/	10	6	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC- 10.2 GPC-11.1 GPC-11.2 GPC- 11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	Interview and consultation
1.12	Public presentation of a research report. /IW/ /Cp/	10	8	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC- 10.2 GPC-11.1 GPC-11.2 GPC- 11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	
1.13	/ credit /	10	0	UC-1.1 UC -1.2 UC -1.3 UC-4.2 UC-6.1 UC-6.1 GPC-10.1 GPC- 10.2 GPC-11.1 GPC-11.2 GPC- 11.3 PC-10.1	L 1.1 L 2.1 L 3.1 L 3.2 L 3.3 E1 E2 E3	justification of the abstract, receiving a review, providing the necessary reporting documentation, receiving credit for the educational practice

5. EVALUATION TOOLS

5.1. Assessment materials for ongoing monitoring and midterm assessment

Presented as a separate document

5.2. Assessment materials for diagnostic testing

Presented as a separate document

6. EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL SUPPORT OF THE DISCIPLINE (MODULE

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6.1. Recommended reading

6.1.1. Main literature

	Authors	Title	Publishe, year	Quantity
L 1.1	Stanton A. Glantz.	Primer of BIOSTATISTICS FOURTH EDITION Stanton A. Glantz, Ph.D. Professor of Medicine Member, Cardiovascular Reserch Institute Member, Institute for Health Policy Studies University of California, San Francisco	electronic resource	1

6.1.2. Additional literature

	Authors	Title	Publishe, year	Quantity
L 2.1	Stanton A. Glantz.	Primer of BIOSTATISTICS FOURTH EDITION Stanton A. Glantz, Ph.D. Professor of Medicine Member, Cardiovascular Reserch Institute Member, Institute for Health Policy Studies University of California, San Francisco	electronic resource	1

6.1.3. Methodological recommendations

	Authors	Title	Publishe, year	Quantity
L 3.1		How to Establish a Research Topic: Easy Writing Tips	electronic resource	1
L 3.2		How To Write An Abstract For A Scientific Article	electronic resource	1

6.2. List of resources of the information and telecommunications network "Internet"

E 1	FreeMedicalJournals http://www.freemedicaljournals.com
E 2	Медико-биологический информационный портал. http://www.medline.ru/
E 3	Научно-медицинская библиотека Сибирского государственного медицинского университета http://medlib.tomsk.ru

6.3.1 Software List

6.3.1.1 Операционные системы Windows, Microsoft, пакет прикладных программ Microsoft Office

6.3.2 List of information reference systems

6.3.2.1 Доступ в сеть интернет (в т.ч. Wi-Fi)

7. LOGISTICS AND TECHNICAL SUPPORT OF THE DISCIPLINE (MODULE)

All classrooms are equipped with multimedia and other teaching aids that allow the use of simulation technologies, with standard sets of professional models and results of laboratory and instrumental studies in quantities that allow students to master the skills and abilities required by professional activities individually. All computers have up-to-date licensed software.

The clinical sites have rooms designed for providing medical care to patients, including those related to medical interventions, equipped with specialized equipment and (or) medical products and consumables in quantities that allow students to master the skills and abilities required by professional activities.

The central library of Surgut State University has rooms for independent work of students, equipped with computer equipment with the ability to connect to the Internet and provide access to the electronic information and educational environment of the organization, as well as with access to electronic library systems (electronic library).

Based on the agreements concluded by the university, all students are issued keys for access to electronic library systems (electronic library) from any device with Internet access.

Students have access to scientific literature funds in the scientific library of Surgut State University, scientometric electronic databases, library funds with periodicals on relevant topics, the availability of hardware and software systems that allow assessing the functional state of the human body. The classrooms of the Department of Pediatric Diseases are located at clinical sites on the territory of their divisions. The classrooms are equipped with computers with software for conducting research - programs on medical and biological statistics, educational presentations on evidence-based medicine.

The clinical sites use accounting (medical histories, outpatient cards) and reporting (annual report forms) documentation.

The material is also collected during examinations of children hospitalized in the hospital and observed in the clinic.

Material and technical resources used to visualize the material being studied and to practice practical skills and abilities: personal computers: 1.

1. BIOSTAT program

2. Excel program

3. Statistica 6.0 program

4. Presentations for learning the material

5. Fundamentals of clinical epidemiology.

1. «Implementation of practical training»

- **Place of practical training**

- **Method of practical training: stationary**

- **Form of practical training: by alternating with the implementation of other components of the educational program in accordance with the academic calendar and curriculum)**

- **Features of practical training for students with disabilities and disabled people.**

In accordance with the requirements of the state program of the Russian Federation

"Accessible Environment" for 2011-2020, in particular, the implementation of subprogram 1

"Ensuring conditions for the accessibility of priority facilities and services in priority areas of life of disabled people and other lowmobility groups of the population", all medical organizations that are clinical bases for educational and industrial training have the characteristics of a "barrier-free environment" for students of the Medical Institute with disabilities.

Currently, the university buildings are equipped with all the main types of accessibility. The entrance group is equipped with a ramp and handrails, a staff call system, the necessary information signs and pictograms are located on the territory of the hospital complex.

The institution has a special sanitary and hygienic room for people with limited mobility. The building is equipped with a freight and passenger elevator, so when visiting the departments located on the basement, second and third floors of the university, it is absolutely accessible.

2. Report on the completion of educational practice, research work

Student _____

Full name of the student

Specialty _____

Year of study _____

Time of practice _____

Scientific supervisor _____

Full name, position, academic rank of the supervisor

Place of practice _____

Specific result (conclusions)

Completion mark (brief description)

The list of practical skills mastered by the student in the framework of educational practice, research work

№	Practical skills, abilities	Necessary quantity	Actual performance
1	Skills in conducting a literature and information search, compiling a list of literature on the research problem, formatting in accordance with GOST	1	
2	Skills in working with literature, regulations, and other sources of information on the topic of research (study and critical analysis)	1	
3	Skills in participating in drawing up a plan, organizing, and conducting scientific research on the topic	1	
4	Skills in participating in the selection of relevant research methods and techniques that correspond to the goal and objectives of the study	1	
5	Skills in collecting research material using general clinical and special research methods in accordance with the topic of the student's research	1	
6	Skills in choosing methods for processing the obtained results, skills in mathematical and statistical data processing	1	
7	Skills in systematizing and analyzing primary data obtained during the study using statistical methods	1	
8	Skills in analyzing and describing the results obtained during the study based on statistics, literary data, legal documents	1	
9	Skills in preparing and formatting research materials for publication (presentation)	1	

Signature of the head of practice from « _____ » 20__.

Student / Full name

Scientific Director _____ / Full name

Head of Department _____ / Full name

3. Work assessment criteria

The assessment of a student's research practice is based on the quality of the prepared research work. This work (depending on the department's decision) can be assessed on a 4-point scale ("excellent", "good", "satisfactory", "unsatisfactory") or on a 2-point scale ("pass", "fail").

When assessing a student's work, the teacher is guided by the following criteria:

- independence in completing the work;
- the list of literature used by the student is sufficiently complete to understand the topic of the work;
- the logic and validity of the drawn up work plan;
- the work plan corresponds to the formulated goal and objectives;
- the ability to independently analyze scientific material;
- the text of the research work is presented logically, competently, reasonably and correctly.
- the student's ability to substantiate his point of view;
- the design of the text of the work meets the stated requirements. In case of evaluation of research work on a five-point scale:

The grade "excellent" is given if:

1. The content of the topic is presented logically.
2. The relevance of the topic under consideration is revealed, the purpose of the study, its objectives are correctly defined, the main categories are revealed.
3. The literature on the topic is analyzed, the methodological foundations of the problem under study are revealed, the issues of the history of its study in science are covered. The analysis of literature is distinguished by depth, independence, the ability to show one's own position in relation to the issue under study.
4. The conclusion of the work contains independently formulated detailed conclusions on the topic of the work.
5. The work is designed in accordance with the stated requirements, written in compliance with the norms of the literary language.
6. The work is completed and presented to the teacher on time.

The grade "good" is given for a test in which:

1. The content is presented logically.
2. The relevance of the topic is revealed, the goal and objectives are correctly defined.
3. The range of primary literature on the topic is presented, the main concepts used in the work are highlighted. Scientific research on the topic is summarized. In some cases, the student is unable to give a critical assessment of scientific views and/or does not sufficiently substantiate certain provisions.
4. The conclusion contains independently formulated general conclusions.
5. The work is formatted in accordance with the developed requirements, written in compliance with the norms of the literary language. It does not contain spelling and punctuation errors. Individual style errors are acceptable.
6. The work is completed on time.

A research work can be assessed as "satisfactory" if:

1. The content is presented logically.
2. The relevance of the topic is not sufficiently disclosed; the list of references is limited.
3. The theoretical analysis is given descriptively, the student was unable to reflect his own position in relation to the materials under consideration, a number of judgments are superficial.
4. The conclusion contains formulated general conclusions.
5. The work is formatted in accordance with the requirements, but it contains spelling and punctuation errors, and style errors.
6. The work is completed on time.

A research paper in which most of the requirements for this type of work are not met is graded "unsatisfactory". If the grade is unsatisfactory, it is returned to the student for revision with comments and instructions from the teacher, and after the deficiencies are corrected, it is re-submitted for review.