Factors Affecting Students’ Grades

**Positively Associated with Better Grades**

* **Gender**: Female students performed better than male students.
* **Course Type**: Students in macroeconomics scored better than those in microeconomics.
* **SAT Score**: Higher SAT scores correlated with higher grades.
* **Recommending the Course**: Students who would recommend the course to a friend tended to perform better.
* **Being a Junior**: Junior-year students had better grades.
* **Number of Economics Courses Taken**: More prior economics courses helped performance.
* **Interest in the Course**: Higher interest correlated with better grades.

**Negatively Associated with Grades**

* **Number of Hours Worked Weekly**: More work hours had a small but negative impact.
* **Number of Missed Classes**: More absences led to lower grades.
* **Study Hours per Week**: Surprisingly, more study hours were associated with *lower* grades—possibly indicating that struggling students study more but still perform worse.

**Other Influential but Not Statistically Significant Factors**

* **GPA**
* **Age**
* **Living in University Housing**
* **Number of Math Courses Taken**
* **Understanding via Instructor Use of Graphs/Equations**
* **Being a Senior**
* **Registering Due to Instructor's Reputation**

**Other Notable Insights**

* Instructor differences significantly impacted student performance.
* Students who chose classes due to scheduling conflicts or personal issues tended to perform worse.
* Preferences for morning or shorter classes had minimal effect on grades.

**Conclusion**

A mix of academic background (like SAT, prior coursework), personal circumstances (work hours, class attendance), interest, and some demographic factors (gender, year) significantly impact student success in economics classes.

Let me know if you'd like a visual summary or a condensed bullet-point version for presentation use.

GPT summary:

### 🎯 1. ****Personal & Cognitive Factors****

1. **Prior academic achievement (GPA, SAT scores)** – Strongest predictor of future performance [[1](https://www.researchgate.net/publication/367360842_Factors_Affecting_Students'_Academic_Performance_A_review)].
2. **Self-motivation and effort** – Highly influences learning outcomes and persistence [[2](https://www.researchgate.net/publication/388309682_Factors_Affecting_Student_Academic_Performance_A_Systematic_Review)].
3. **Time management and study habits** – Directly correlated with higher academic success [[4](https://www.voovostudy.com/study-blog/top-5-factors-influencing-student-academic-performance)].
4. **Test anxiety and stress levels** – Can negatively impact performance if unmanaged [[2](https://www.researchgate.net/publication/388309682_Factors_Affecting_Student_Academic_Performance_A_Systematic_Review)].

### 🏠 2. ****Family & Socioeconomic Background****

1. **Parental involvement** – Critical in shaping educational outcomes [[4](https://www.voovostudy.com/study-blog/top-5-factors-influencing-student-academic-performance)].
2. **Socioeconomic status (SES)** – Affects access to resources, stability, and opportunities [[4](https://www.voovostudy.com/study-blog/top-5-factors-influencing-student-academic-performance)].
3. **Home environment & parental education level** – Influences attitudes toward education and learning habits [[5](https://www.scirp.org/journal/paperinformation?paperid=123410)].

### 🧑‍🏫 3. ****Instructional & School-Related Factors****

1. **Teacher-student relationship** – A strong rapport promotes engagement and achievement [[4](https://www.voovostudy.com/study-blog/top-5-factors-influencing-student-academic-performance)].
2. **Teaching quality and methods** – Active and inclusive teaching styles enhance understanding [[1](https://www.researchgate.net/publication/367360842_Factors_Affecting_Students'_Academic_Performance_A_review)].
3. **Class size and resources** – Smaller classes tend to yield better outcomes [[3](https://www.tandfonline.com/doi/full/10.1080/23311983.2024.2412944)].

### 👫 4. ****Social & Peer Factors****

1. **Peer influence and support** – Peers can positively or negatively affect performance [[5](https://www.scirp.org/journal/paperinformation?paperid=123410)].
2. **Class participation and group work** – Encourages deeper learning and retention [[1](https://www.researchgate.net/publication/367360842_Factors_Affecting_Students'_Academic_Performance_A_review)].

### 🌍 5. ****Environmental & Institutional Factors****

1. **Access to learning resources (library, internet)** – Strongly supports academic work [[3](https://www.tandfonline.com/doi/full/10.1080/23311983.2024.2412944)].
2. **School infrastructure and safety** – Affects attendance and concentration [[3](https://www.tandfonline.com/doi/full/10.1080/23311983.2024.2412944)].

## 🌐 Sources

1. [researchgate.net - Factors Affecting Students' Academic Performance: A review](https://www.researchgate.net/publication/367360842_Factors_Affecting_Students'_Academic_Performance_A_review)
2. [researchgate.net - (PDF) Factors Affecting Student Academic Performance](https://www.researchgate.net/publication/388309682_Factors_Affecting_Student_Academic_Performance_A_Systematic_Review)
3. [tandfonline.com - Factors affecting students' academic performance and ...](https://www.tandfonline.com/doi/full/10.1080/23311983.2024.2412944)
4. [voovostudy.com - Top 5 Factors Influencing Student Academic Performance](https://www.voovostudy.com/study-blog/top-5-factors-influencing-student-academic-performance)
5. [scirp.org - Factors That Affect Students' Academic Achievement in the ...](https://www.scirp.org/journal/paperinformation?paperid=123410)